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AN EXPERIMENTAL INVESTIGATION OF COOLANT MIXING IN A WIRE WRAPPED LMFBR BLANKET SUBASSEMBLY

[pt.2]

Carl Henry Oosterman

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[pt. 2]

AN EXPERIMENTAL INVESTIGATION OF COOLANT MIXING IN A WIRE WRAPPED LMFBR BLANKET SUBASSEMBLY

by

CARL HENRY OOSTERMAN

B.S., United States Naval Academy
1969

M.C.E., University of Delaware
1970

SUBMITTED IN PARTIAL FULFILLMENT
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MASTER OF SCIENCE IN NUCLEAR ENGINEERING
AND NAVAL ENGINEER
at the
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June, 1975

Thesis
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pt 2

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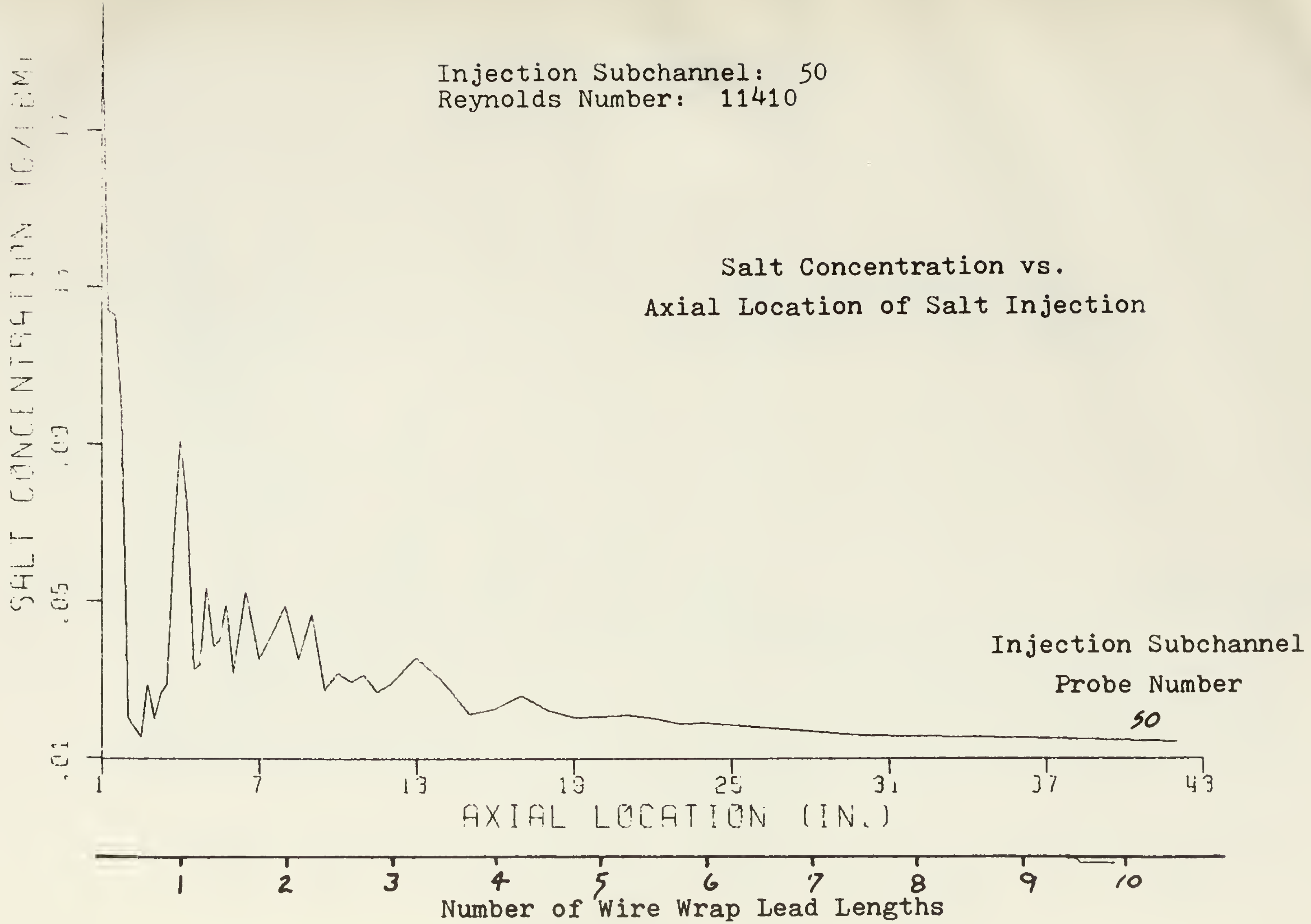
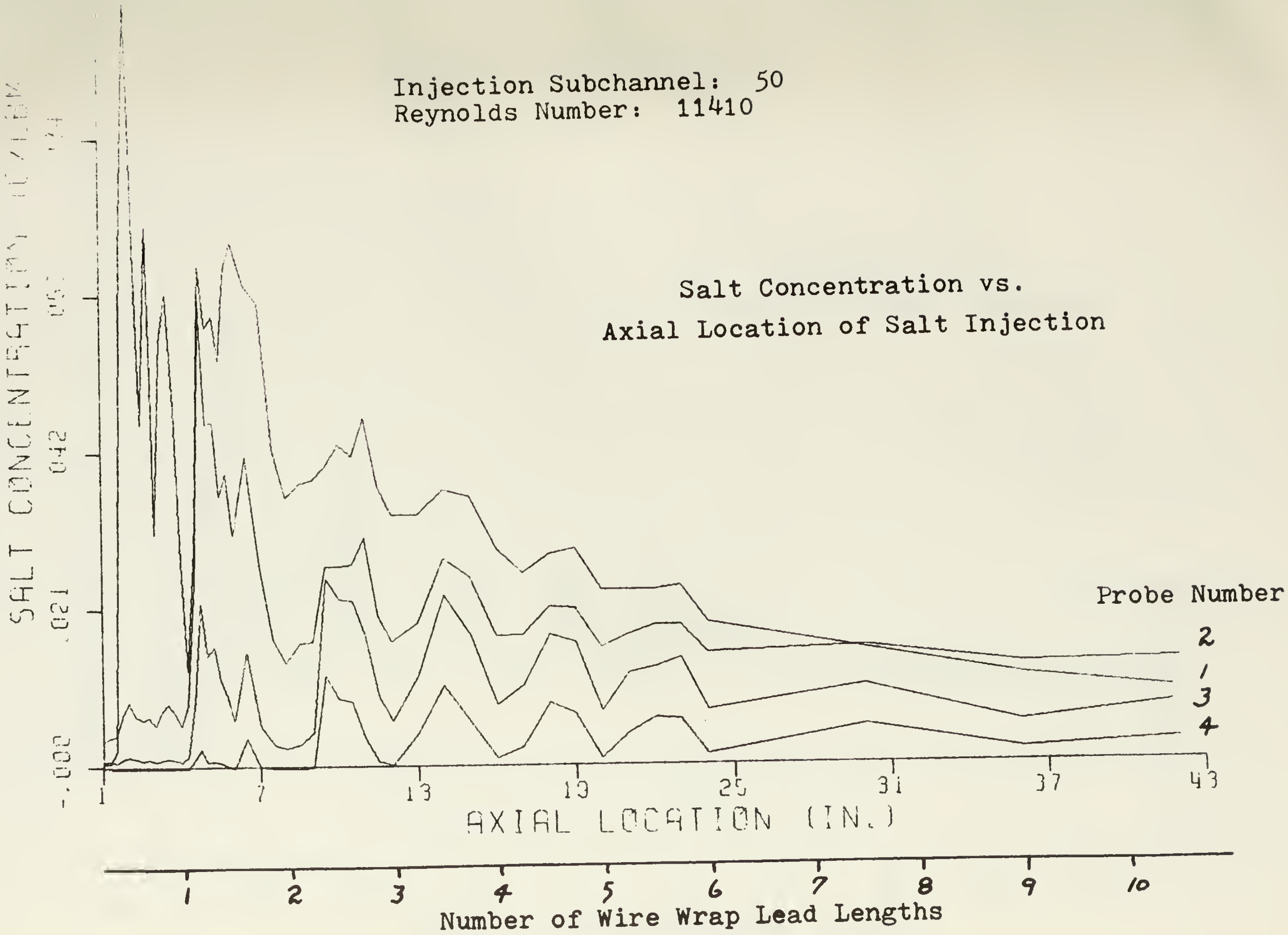


Injection Subchannel: 50
Reynolds Number: 11410

Salt Concentration vs.
Axial Location of Salt Injection

Injection Subchannel
Probe Number

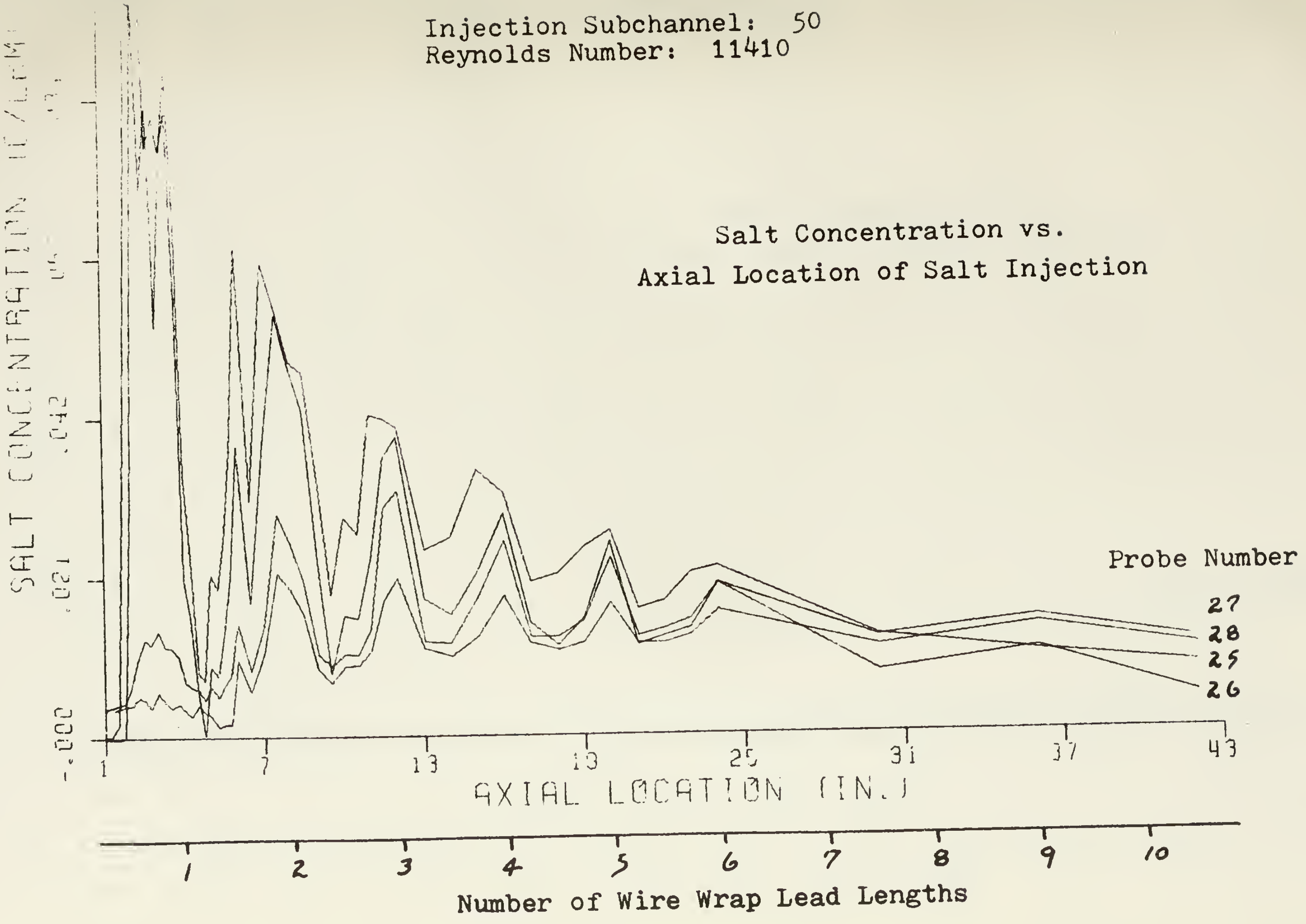
Figure 4-44



Injection Subchannel: 50
Reynolds Number: 11410

Salt Concentration vs.
Axial Location of Salt Injection

Figure 4-45



Injection Subchannel: 50
Reynolds Number: 11410

Salt Concentration vs.
Axial Location of Salt Injection

Figure 4-46

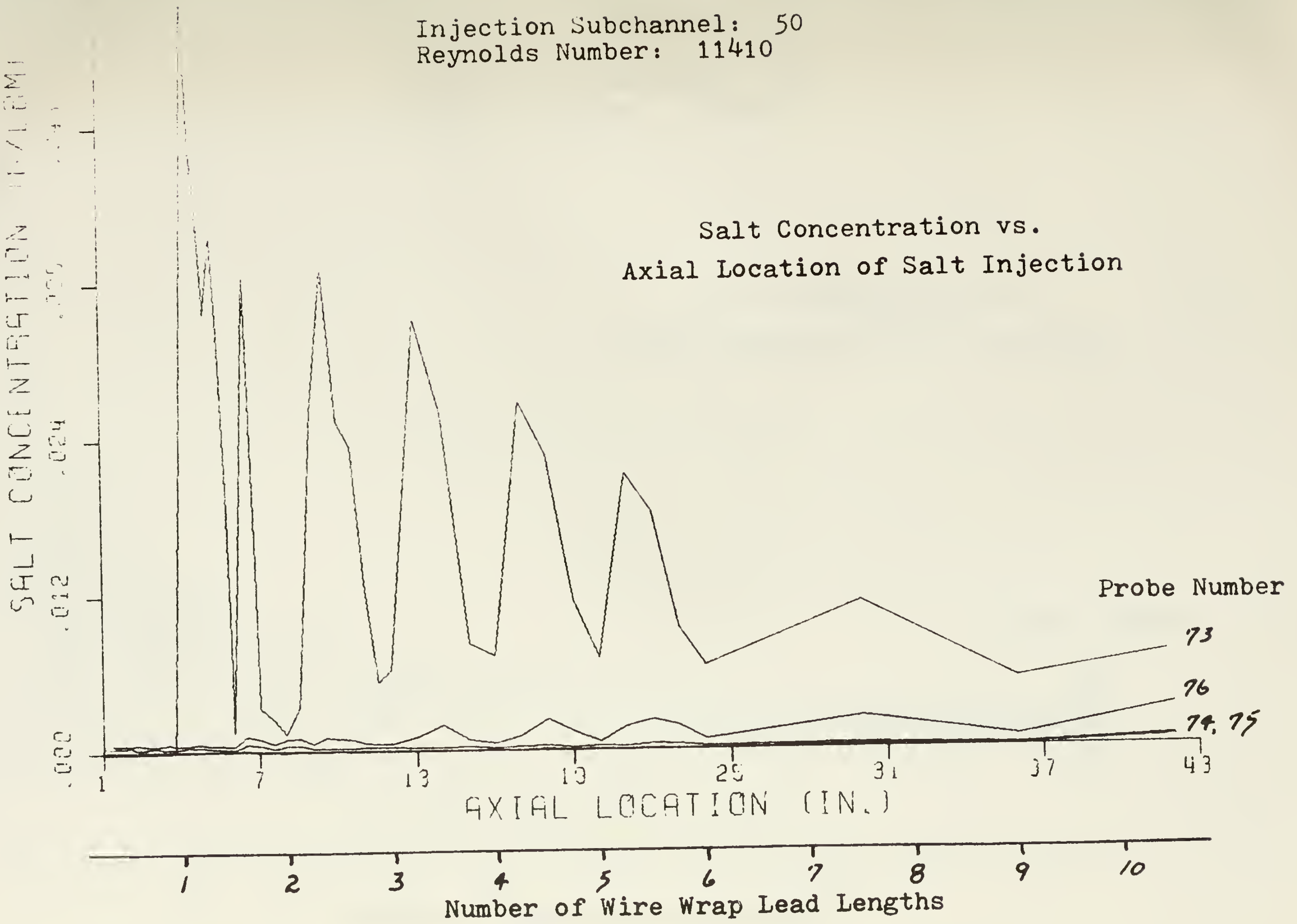

Injection Subchannel: 50
Reynolds Number: 11410
Salt Concentration vs.
Axial Location of Salt Injection
SALT CONCENTRATION (M/LGM)
.000
.012
.024
.036
.048
1
7
13
19
25
31
37
43
AXIAL LOCATION (IN.)
1
2
3
4
5
6
7
8
9
10
Number of Wire Wrap Lead Lengths
Probe Number
73
76
74, 75

Figure 4-47

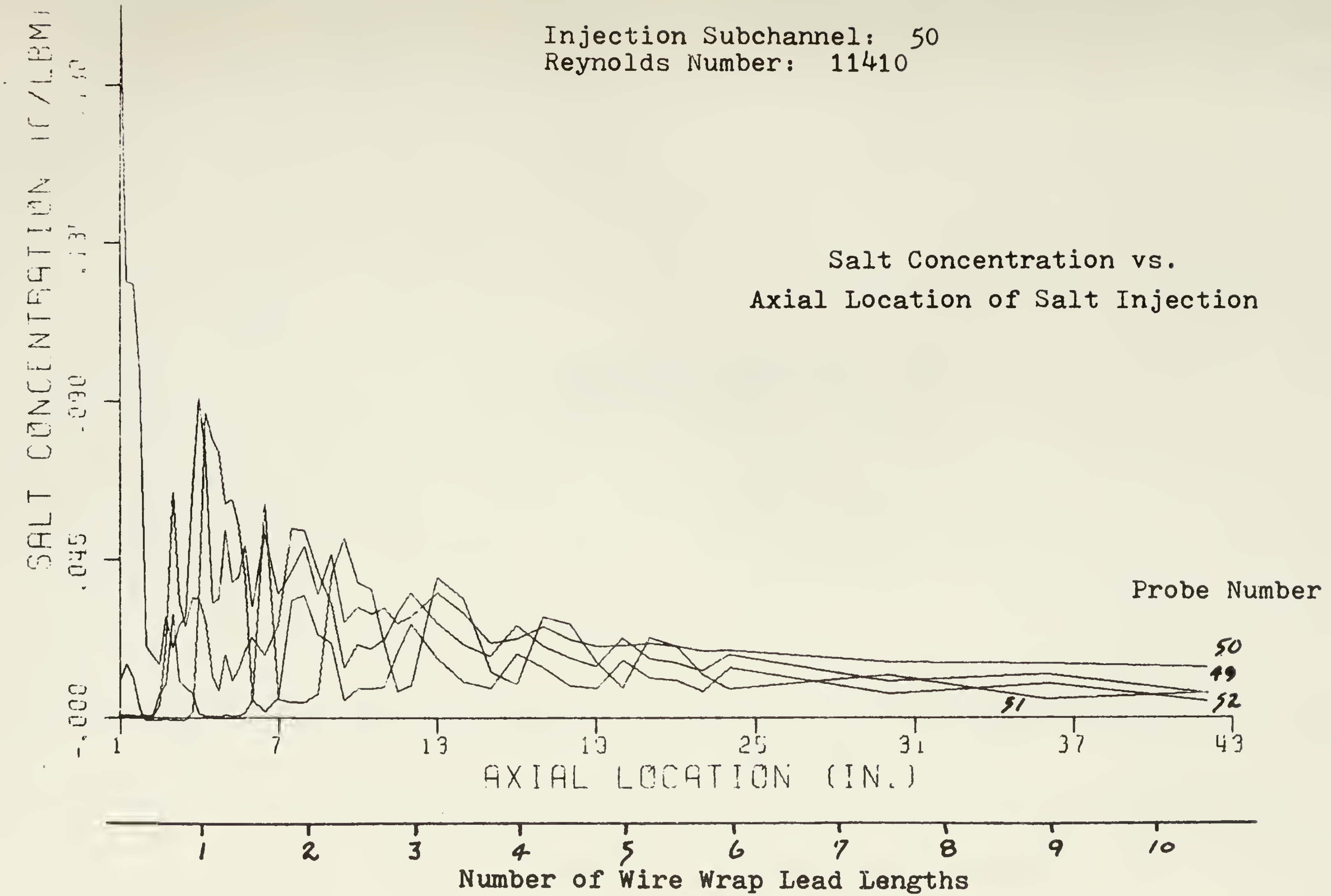

Injection Subchannel: 50
Reynolds Number: 11410
Salt Concentration vs.
Axial Location of Salt Injection
SALT CONCENTRATION (C/LBM)
.180
.135
.090
.045
-.000
1
7
13
19
25
31
37
43
AXIAL LOCATION (IN.)
Probe Number
50
49
51
52
1
2
3
4
5
6
7
8
9
10
Number of Wire Wrap Lead Lengths

Figure 4-48

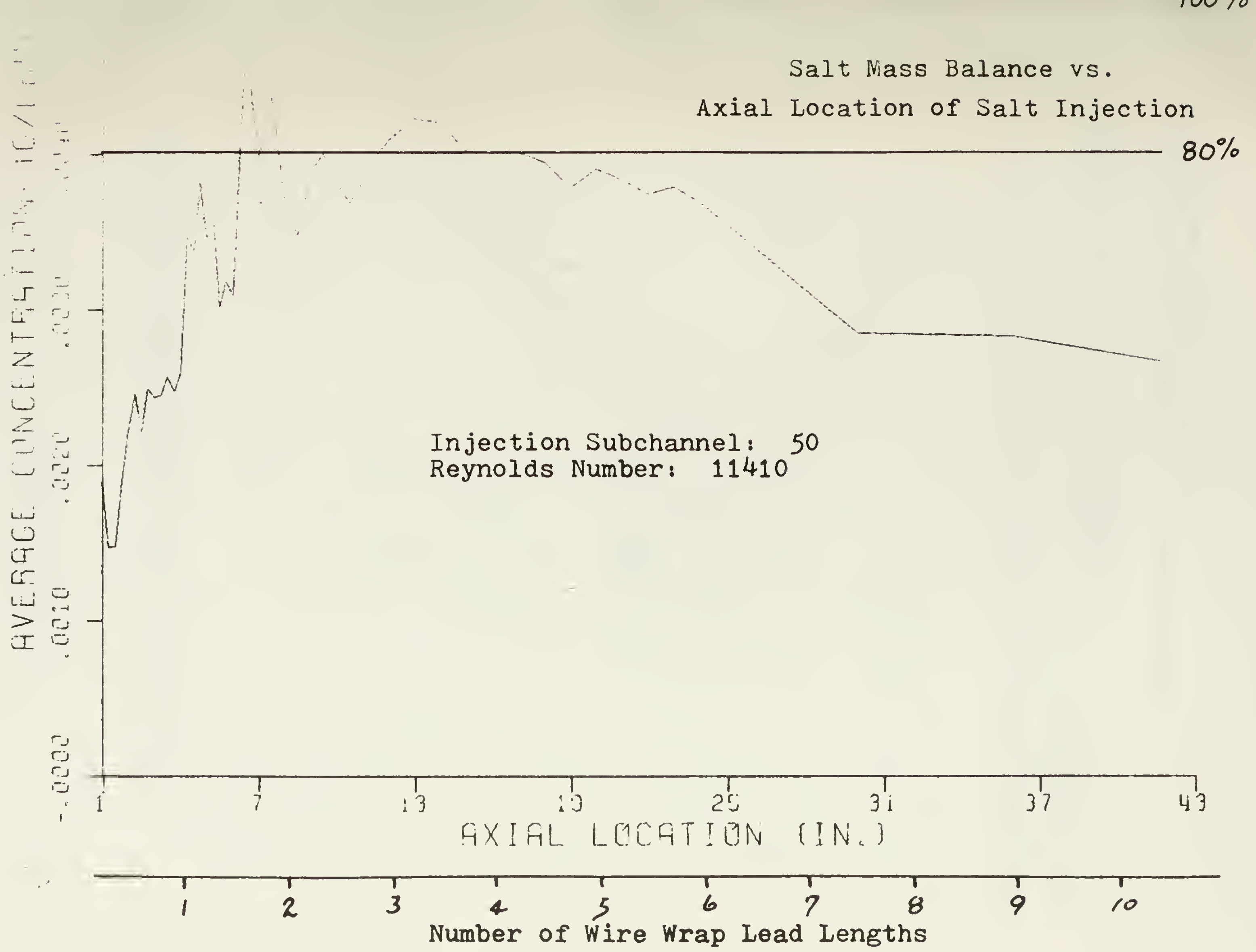

100%
Salt Mass Balance vs.
Axial Location of Salt Injection
80%
Injection Subchannel: 50
Reynolds Number: 11410
AVERAGE CONCENTRATION
.0030
.0020
.0010
-.0000
1
7
13
19
25
31
37
43
AXIAL LOCATION (IN.)
1
2
3
4
5
6
7
8
9
10
Number of Wire Wrap Lead Lengths

Figure 4-49

Reynolds Number: 11410
Injection Subchannel: 50 (underlined)

```
AXIAL POSITION #   2
AXIAL LOCATION = 36.00 INCHES
AVERAGE SALT CONCENTRATION =0.0028 G-SALT/LBM-WATER

SUBCHANNEL SALT CONCENTRATIONS IN MG-SALT/LBM-WATER:

                      -1       2       3       0       0      -1

                   1       0       2       0       3       0
                       0       1       0       0       2

               0      10       3       4       0       0       0
                   1       6       3       2       0       0

           5      13       8       9       3       0       0       0
               0      13      14       4       1       0       0

       0       9      14      10      11       5       0       0      -1
           2       6      14    [10]      13       1       0       0

  -1                                                              -1

           0      14       9      15       5       0       0       4
       0       3      14      12       5       0       0      10      -3

               7       3       8       4       2       0       0
           0       4       4      13       6       0       0       1

                   0      10      10       1       0       0
               0       0       2       2       0       0       0

                       0       1       0       5       3
                   1       0       0       6       0       0

                      -1       1      -1       0       0      -1
```

See Figure 4-40a for Wire Wrap Orientation

Figure 4-50

```
AXIAL POSITION #   4
AXIAL LOCATION = 24.00 INCHES
AVERAGE SALT CONCENTRATION =0.0037 G-SALT/LBM-WATER

SUBCHANNEL SALT CONCENTRATIONS IN MG-SALT/LBM-WATER:

                -1     2     3     0     3    -1

              1     0     2     0     4     0
                 1     2     0     0     3

           0    11     8     5     1     0     0
              1    10     6     3     0     0

        5    14    15    17     6     0     0     0
           1    15    17     9     2     0     0

     0     9    16    19    18     6     0     0     3
        1    10    19    22    14     1     0     0

 -1                                              -1

        0    14    14    19     6     0     0     6
     0     3    15    18     8     0     0    10     0

           5     2     9     7     2     0     0
        0     3     3    13     8     0     0     4

              0     6     9     1     0     0
           0     0     1     1     0     0     0

                 0     0     0     4     3
              1     0     0     5     0     0

                -1     0     0     0    -1    -1
```

Reynolds Number: 11410
Injection Subchannel: 50 (underlined)

Figure 4-51

```
AXIAL POSITION # 10
AXIAL LOCATION = 18.00 INCHES
AVERAGE SALT CONCENTRATION =0.0040 G-SALT/LBM-WATER

SUBCHANNEL SALT CONCENTRATIONS IN MG-SALT/LBM-WATER:

                      -1       2       2       0       2      -1

                   0       0       0       0       3       0
                       0       0       0       0       3

               0       5       0       2       0       0       0
                   0       0       1       1       0       0

           3       6       2       8       9       2       0       0
               0       7      13       6       3       0       0

       0       2      11      11      28      17       7       0       3
           0       0      12      21      20       8       2       0

  -1                                                              -1

           0      10       9      22      22       0       5      21
       0       0      13      17      26       0       2      18       1

               3       0      12      18      14       2       0
           0       1       3      16      23       6       0       5

                   0       6      12       6       1       0
               0       0       2       5       2       0       0

                       0       0       0       8       6
                   1       0       0       7       0       0

                      -1       0       0       0       0      -1
```

Reynolds Number: 11410
Injection Subchannel: 50 (underlined)

Figure 4-52

```
AXIAL POSITION # 16
AXIAL LOCATION = 12.00 INCHES
AVERAGE SALT CONCENTRATION =0.0041 G-SALT/LBM-WATER

SUBCHANNEL SALT CONCENTRATIONS IN MG-SALT/LBM-WATER:

                      -1       2       2       0       3      -1

                   1       0       0       0       4       0
                       0       0       0       0       3

               0       7       3       2       0       0       0
                   0       3       3       0       0       0

           3      12      17      26       6       0       0       0
               0      14      22      10       0       0       0

       0       6      20      39      33       5       0       0       3
           0      10      32      40      16       0       0       0

  -1                                                          -1

           0      14      26      28       6       0       0       5
       0       0      20      35       9       0       0       8       1

               5       1      13       6       1       0       0
           0       1       3      14       7       0       0       4

                   0       3       6       0       0       0
               0       0       0       0       0       0       0

                       0       0       0       3       3
                   1       0       0       4       0       0

                      -1       0       0       0      -1      -1
```

Reynolds Number: 11410
Injection Subchannel: 50 (underlined)

Figure 4-53

```
                  ----



AXIAL POSITION # 20
AXIAL LOCATION = 10.00 INCHES
AVERAGE SALT CONCENTRATION =0.0038 G-SALT/LBM-WATER

SUBCHANNEL SALT CONCENTRATIONS IN MG-SALT/LBM-WATER:

                      -1       1       2       0       2      -1

                     0       0       0       0       3       0
                         0       0       0       0       3

                 0       5       0       0       0       0       0
                     0       0       0       0       0       0

             4       0       0       6       4       0       0       0
                 0       3      12       3       0       0       0

         0       2       9      15      42      22       4       0       4
             0       0      10      28      26       8       0       0

  -1                                                            -1

             0       2       8      31      25       0       2      31
         0       0      12      20      38       0       0      21       2

                 2       0       8      18      12       0       0
             0       0       0      14      34       2       0       6

                     0       4       7       0       0       0
                 0       0       0       0       0       0       0

                         0       0       0       4       3
                     0       0       0       3       0       0

                      -1       0       0       0      -1      -1
```

Reynolds Number: 11410
Injection Subchannel: 50 (underlined)

Figure 4-54

```
AXIAL POSITION # 22
AXIAL LOCATION =  9.00 INCHES
AVERAGE SALT CONCENTRATION =0.0039 G-SALT/LBM-WATER

SUBCHANNEL SALT CONCENTRATIONS IN MG-SALT/LBM-WATER:

                      -1       2       2       0       3      -1

                   0       0       0       0       5       0
                       0       0       0       0       3

               0       5       0       0       0       0       0
                   0       0       0       0       0       0

           4       3       0       3       0       0       0       0
               0       3      11       1       0       0       0

       0       2       8      23      38       4       0       0       3
           0       0      10      33      16       0       0       0

  -1                                                              -1

           0       4      21      46      26       0       0      17
       0       0      14      32      40       0       0      12       2

               3       0      24      27      10       0       0
           0       0       5      23      25       0       0       5

                   0       4       9       2       0       0
               0       0       0       1       0       0       0

                       0       0       0       4       4
                   0       0       0       3       0       0

                      -1       0       0       0      -1      -1
```

Reynolds Number: 11410
Injection Subchannel: 50 (underlined)

Figure 4-55

```
AXIAL POSITION # 24
AXIAL LOCATION =  8.0C INCHES
AVERAGE SALT CONCENTRATION =0.0037 G-SALT/LBM-WATER

SUBCHANNEL SALT CONCENTRATIONS IN MG-SALT/LBM-WATER:

                   -1     1     1     0     2    -1

                 0     0     0     0     5     0
                    0     0     0     0     3

              0     5     0     0     0     0     0
                 0     0     0     0     0     0

           3     3     5    22     1     0     0     0
              0     6    20     4     0     0     0

        0     3    19    48    35     2     0     0     3
           0     4    25    49    13     0     0     0

    -1                                              -1

           0     7    34    48     1     0     0     1
        0     0    25    53     4     0     0     7     2

              4     0     9     0     0     0     0
           0     0     0    12     3     0     0     5

                 0     4     5     0     0     0
              0     0     0     0     0     0     0

                    0     0     0     4     3
                 1     0     0     3     0     0

                   -1     0     0     0    -1    -1
```

Reynolds Number: 11410
Injection Subchannel: 50 (underlined)

Figure 4-56

```
AXIAL POSITION # 28
AXIAL LOCATION =  6.00 INCHES
AVERAGE SALT CONCENTRATION =0.0031 G-SALT/LBM-WATER

SUBCHANNEL SALT CONCENTRATIONS IN MG-SALT/LBM-WATER:

            -1   0   0   0   0  -1

           0   0   0   0   2   0
             0   0   0   0   2

         0   4   0   0   0   0   0
           0   0   0   0   0   0

       0   1   5  43  15   0   0   0
         0   4  27  27   0   0   0

     0   1  10  38  69   5   0   0   0
       0   0  14 [64] 30   0   0   0

  -1                              -1

       0   2   5  31   1   0   0   1
     0   0   6  23   4   0   0   6   0

         2   0   1   0   0   0   0
       0   0   0   4   3   0   0   0

           0   0   2   0   1   0
         0   0   0   0   0   0   0

             0   0   0   1   3
           0   0   0   0   0   0

            -1   0   0   0   0  -1
```

Reynolds Number: 11410
Injection Subchannel: 50 (underlined)

Figure 4-57

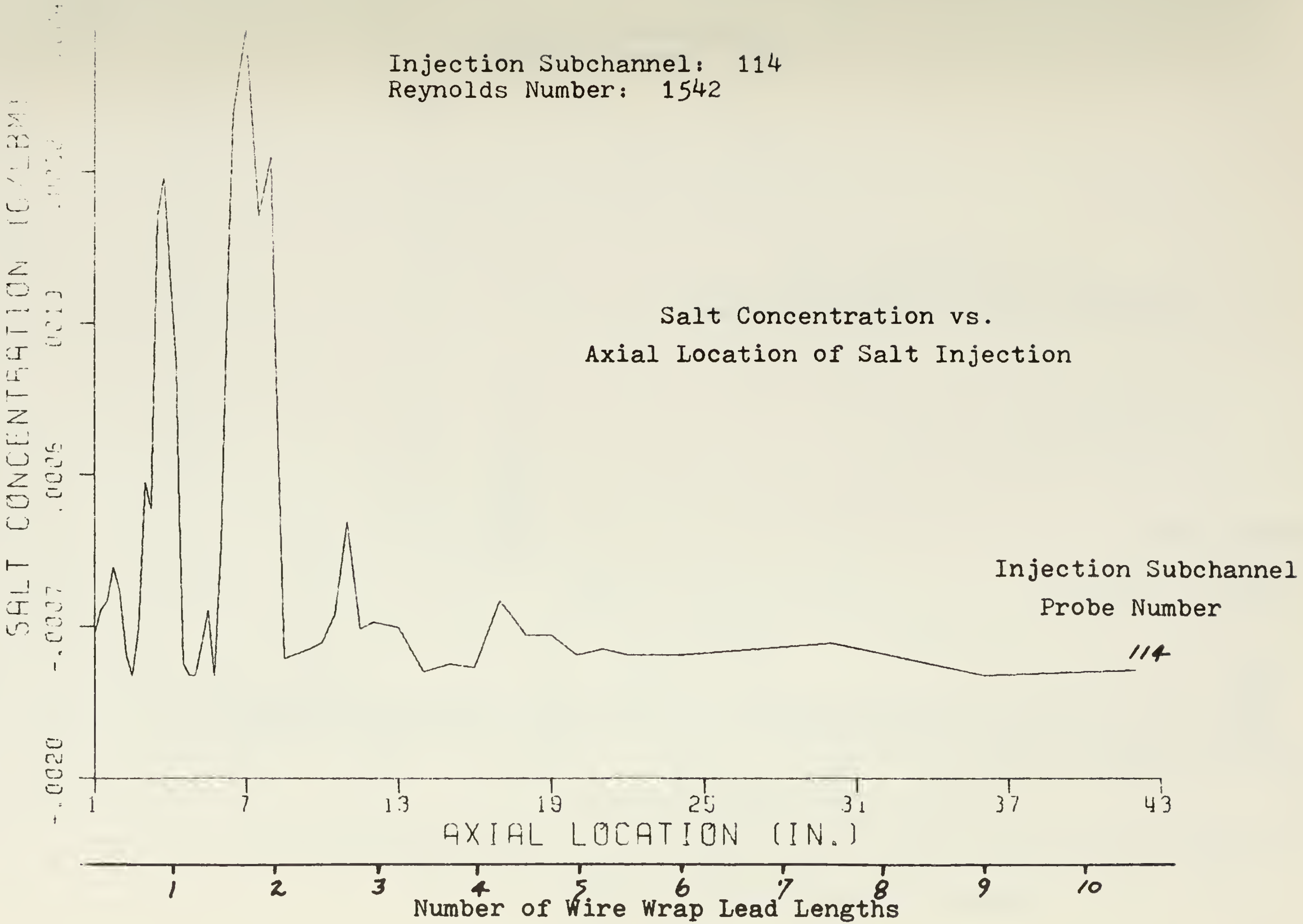

Injection Subchannel: 114
Reynolds Number: 1542
Salt Concentration vs.
Axial Location of Salt Injection
Injection Subchannel
Probe Number
114
SALT CONCENTRATION (G/LBM)
-.0020
-.0007
.0006
.0019
.0032
.0045
1
7
13
19
25
31
37
43
AXIAL LOCATION (IN.)
1
2
3
4
5
6
7
8
9
10
Number of Wire Wrap Lead Lengths

Figure 4-58

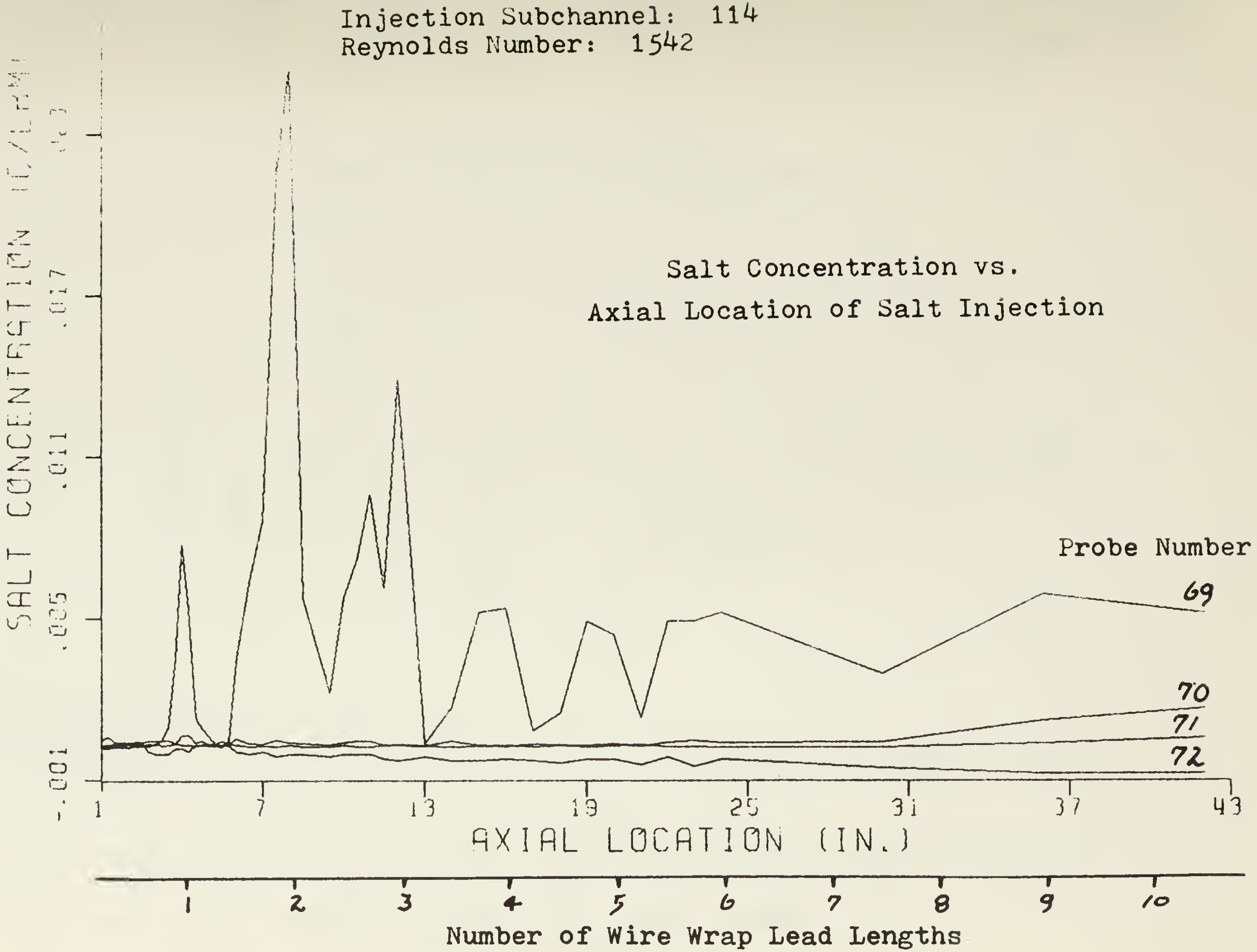

Injection Subchannel: 114
Reynolds Number: 1542
Salt Concentration vs.
Axial Location of Salt Injection
SALT CONCENTRATION (G/LGM)
-.001
.005
.011
.017
.023
1
7
13
19
25
31
37
43
AXIAL LOCATION (IN.)
Probe Number
69
70
71
72
1
2
3
4
5
6
7
8
9
10
Number of Wire Wrap Lead Lengths

Figure 4-59

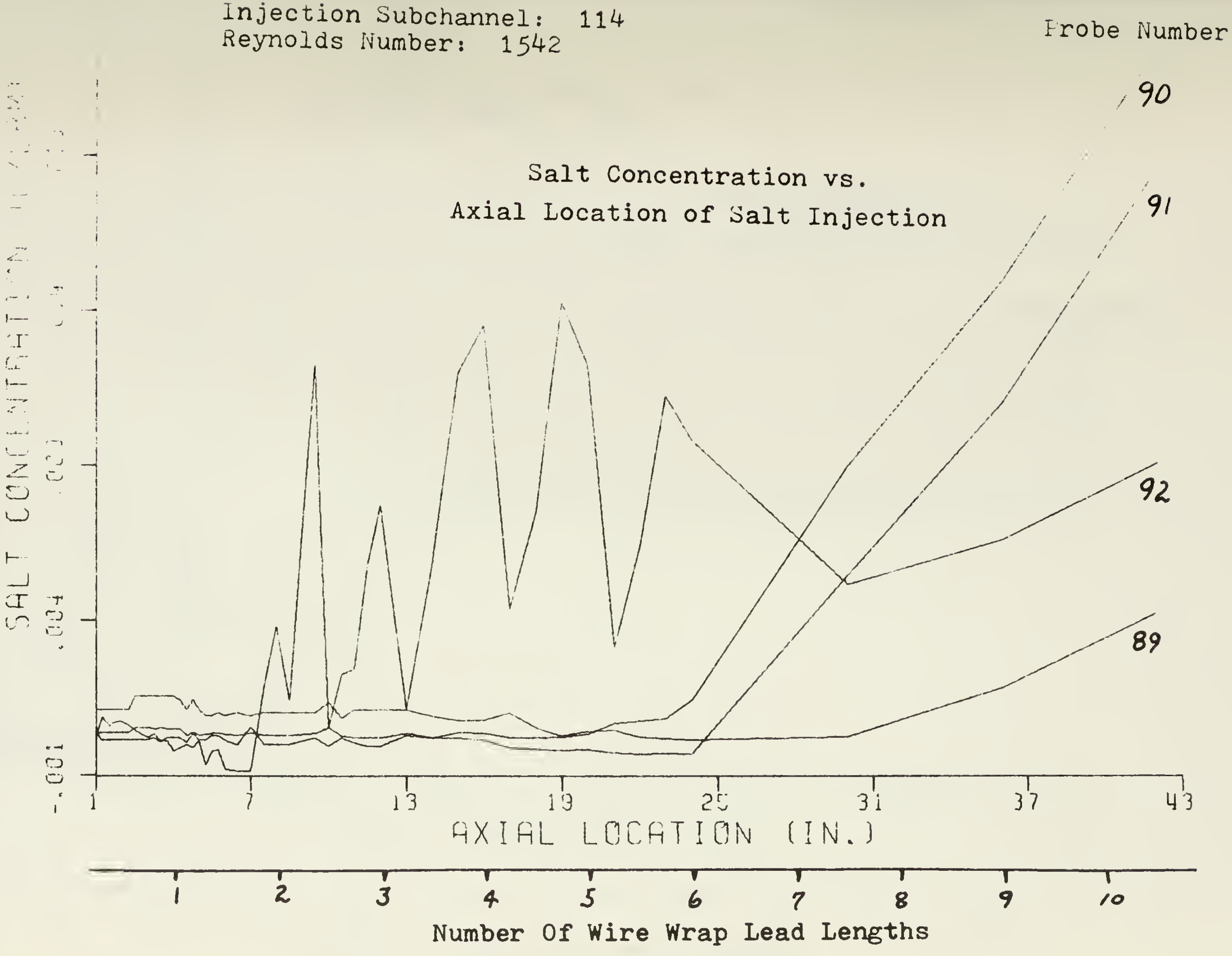

Injection Subchannel: 114
Reynolds Number: 1542
Probe Number
Salt Concentration vs.
Axial Location of Salt Injection
90
91
92
89
SALT CONCENTRATION
-.001
.004
1
7
13
19
25
31
37
43
AXIAL LOCATION (IN.)
1
2
3
4
5
6
7
8
9
10
Number Of Wire Wrap Lead Lengths

Figure 4-60

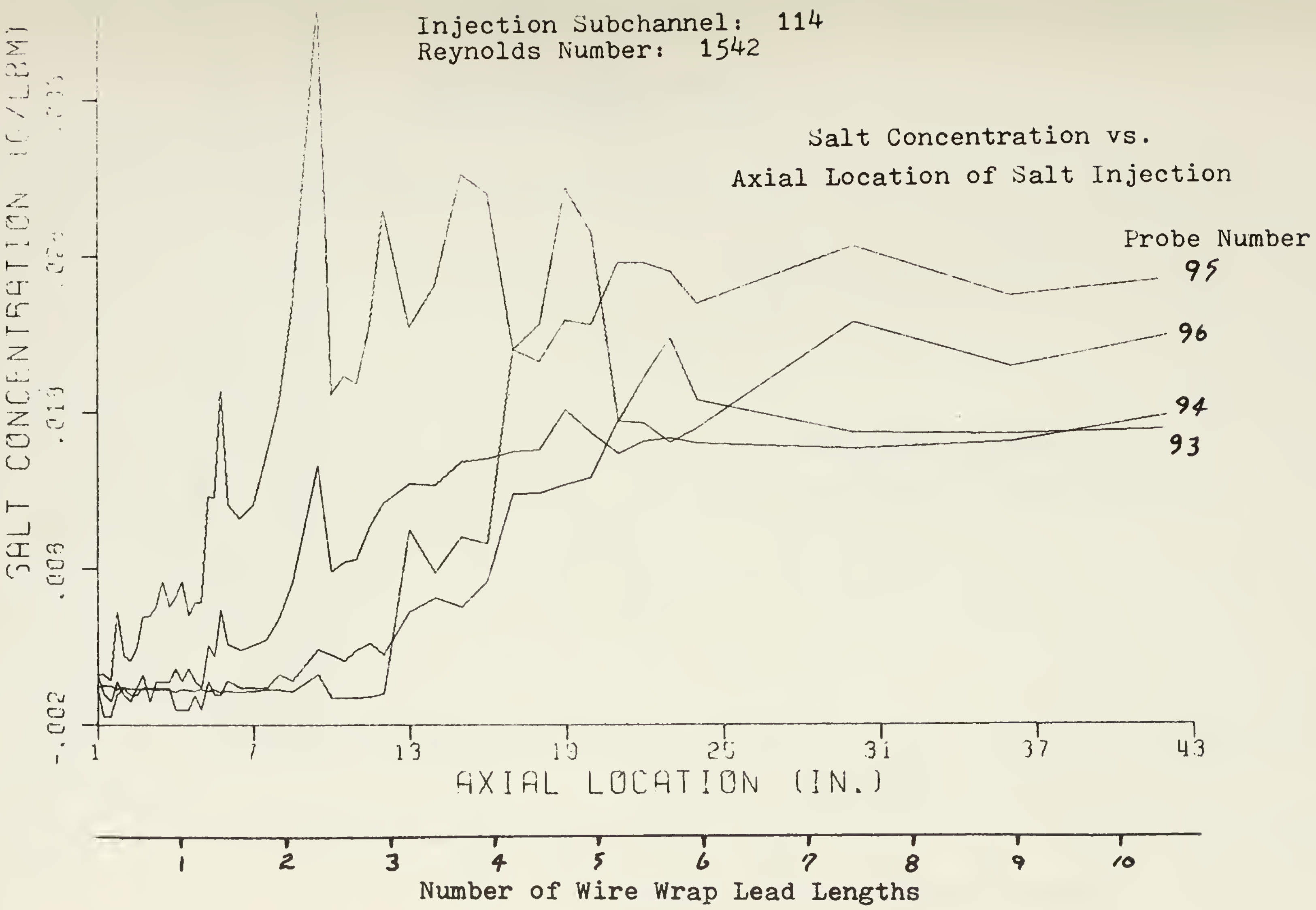
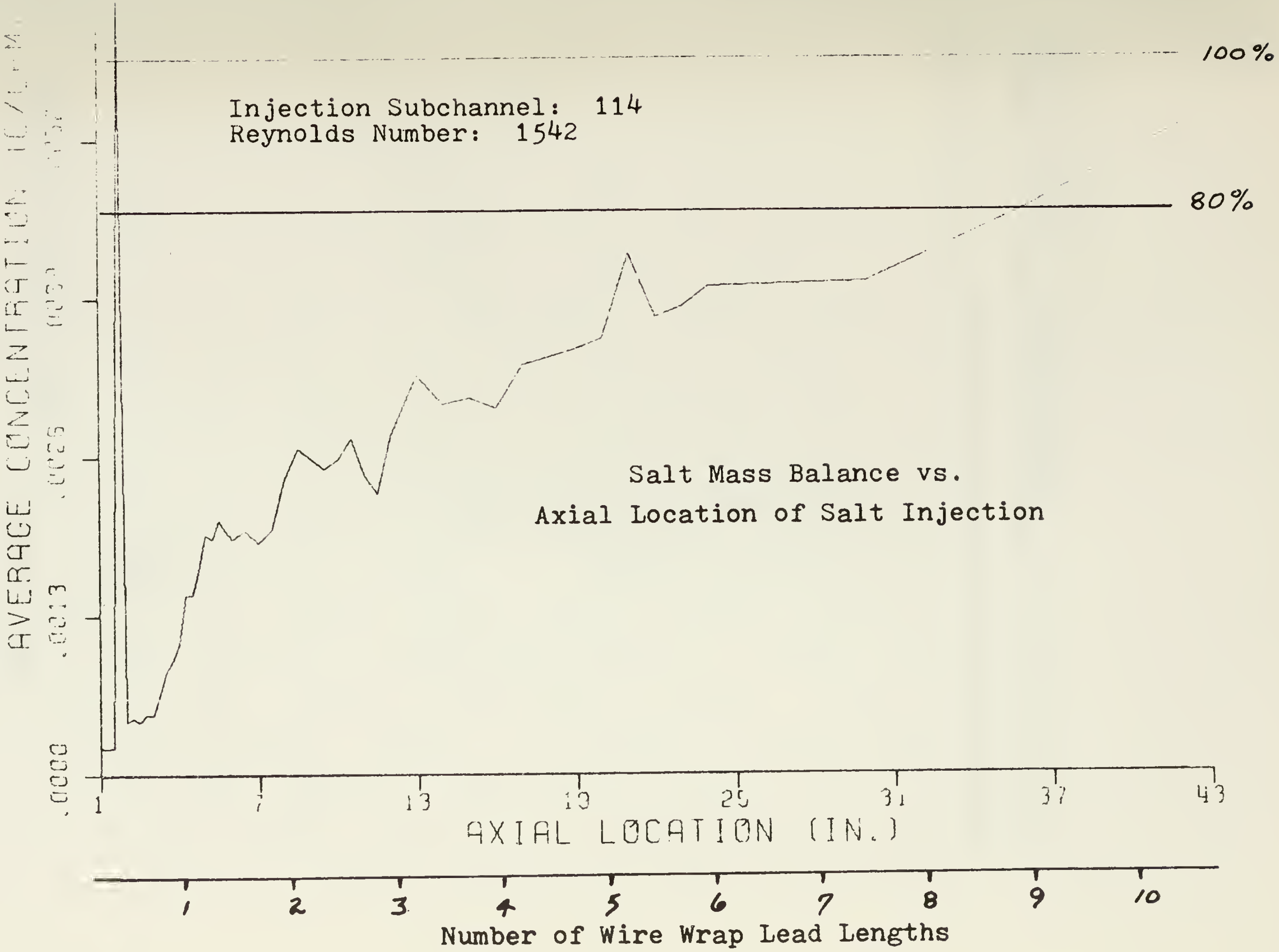

Injection Subchannel: 114
Reynolds Number: 1542
Salt Concentration vs.
Axial Location of Salt Injection
Probe Number
95
96
94
93
SALT CONCENTRATION (G/LBM)
-.002
.008
.018
.028
.038
1
7
13
19
25
31
37
43
AXIAL LOCATION (IN.)
1
2
3
4
5
6
7
8
9
10
Number of Wire Wrap Lead Lengths

Figure 4-61



AVERAGE CONCENTRATION (C/L-M
.0000
.0013
.0026
.0039
.0052
100%
80%
Injection Subchannel: 114
Reynolds Number: 1542
Salt Mass Balance vs.
Axial Location of Salt Injection
1
7
13
19
25
31
37
43
AXIAL LOCATION (IN.)
1
2
3
4
5
6
7
8
9
10
Number of Wire Wrap Lead Lengths

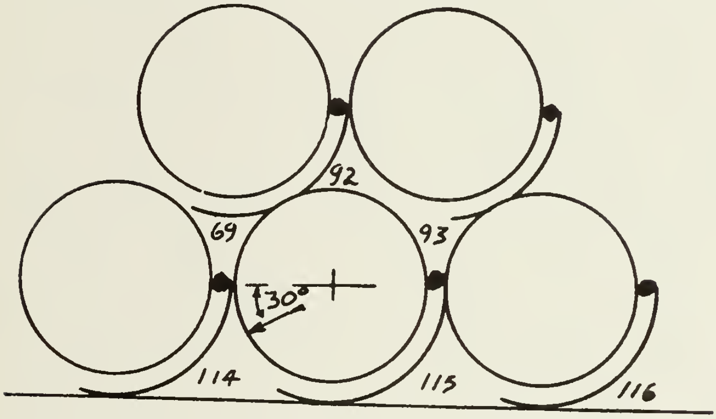
Figure 4-62

```
AXIAL POSITION #  2
AXIAL LOCATION = 36.00 INCHES
AVERAGE SALT CONCENTRATION =0.0046 G-SALT/LBM-WATER

SU23HANNEL SALT CONCENTRATIONS IN MG-SALT/LBM-WATER:

                   -1     4     3     0     4    -1

                 0     0     0     0     7     0
                    0     0     0     0     6

              0     5     0     0     0     0     0
                 0     0     0     0     0     0

           4     6     0     0     0     0     0     0
              0     3     5     0     0     0     0

        0     4     5     0     0     0     0     0     7
           0     0     5     0     4     0     0     0

    -1                                              -1

           0     5     0     5     1     0     0     0
        0     0     5     0     0     0     0     5    12

              4     0     1     0     1     0     1
           0     1     0     7     0     0     0    30

                 0     7     9     2     1    10
              0     0     1     5     4    14    52

                    0     1     6    16    20
                 1     0     5    16    25    46

                   -1     0    -1     3    15    -1
```

Reynolds Number: 1542
Injection Subchannel: 114 (underlined)

See Figure 4-63a for wire wrap orientation

Figure 4-63



arrow shows salt injection point

Wire Wrap Orientation for Edge Injection At
36, 28, 24, 20, 16, 12, 8, and 4 inches

Figure 4-63a

```
AXIAL POSITION #   4
AXIAL LOCATION = 24.00 INCHES
AVERAGE SALT CONCENTRATION =0.0040 G-SALT/LBM-WATER

SUBCHANNEL SALT CONCENTRATIONS IN MG-SALT/LBM-WATER:

                   -1     0     0     0     1    -1

                 0     0     0     0     3     0
                    0     0     0     0     2

              0     3     0     0     0     0     0
                 0     0     0     0     0     0

           1     2     0     0     0     0     0     0
              0     1     2     0     0     0     0

        0     0     2     0     0     0     0     0     3
           0     0     2     0     1     0     0     0

    -1                                              -1

           0     1     0     1     0     0     0     0
        0     0     3     0     0     0     0     2     1

              1     0     0     0     0     0     0
           0     0     0     4     0     0     0     9

                 0     2     6     0     0     0
              0     0     0     3     1     1    23

                    0     0     9    15    16
                 0     0     5    18    24    72

                   -1     0     0    17    51    -1
```

Reynolds Number: 1542
Injection Subchannel: 114 (underlined)

Figure 4-64

```
AXIAL POSITION # 10
AXIAL LOCATION = 18.00 INCHES
AVERAGE SALT CONCENTRATION =0.0034 G-SALT/LBM-WATER

SU23HANNEL SALT CONCENTRATIONS IN MG-SALT/LBM-WATER:

               -1     0     0     0     2    -1

             0     0     0     0     3     0
                0     0     0     0     2

          0     2     0     0     0     0     0
             0     0     0     0     0     0

       1     0     0     0     0     0     0     0
          0     2     1     0     0     0     0

    0     0     1     0     0     0     0     0     3
       0     0     1     0     0     0     0     0

-1                                              -1

       0     1     0     2     0     0     0     0
    0     0     1     0     0     0     0     0     1

          0     0     0     0     0     0     0
       0     0     0     1     0     0     0     0

             0     3     4     0     0     0
          0     0     0     2     0     0     0

                0     0     7    15    12
             0     0     1    23    21    44

               -1     0     0    21    74    -1
```

Reynolds Number: 1542
Injection Subchannel: 114 (underlined)

Figure 4-65

```
AXIAL POSITICN # 16
AXIAL LOCATION = 12.00 INCHES
AVERAGE SALT CONCENTRATION =0.0028 G-SALT/LBM-WATER

SU23HANNEL SALT CONCENTRATIONS IN MG-SALT/LBM-WATER:

                   -1     0     0     0     0    -1

                 0     0     0     0     3     0
                    0     0     0     0     1

              0     2     0     0     0     0     0
                 0     0     0     0     0     0

           1     0     0     0     0     0     0     0
              0     0     1     0     0     0     0

        0     0     0     0     0     0     0     0     1
           0     0     3     0     0     0     0     0

    -1                                              -1

           0     0     0     1     0     0     0     0
        0     0     1     0     0     0     0     0     1

              0     0     0     0     0     0     0
           0     0     0     1     0     0     0     0

                 0     1     2     0     1     0
              0     0     0     0     0     0     0

                    0     0     7    12     2
                 0     0    13    30     0     0

                   -1     0     0    79    44    -1
```

Reynolds Number: 1542
Injection Subchannel: 114 (underlined)

Figure 4-66

```
AXIAL POSITION # 20
AXIAL LOCATION = 10.00 INCHES
AVERAGE SALT CONCENTRATION =0.0026 G-SALT/LBM-WATER

SU23HANNEL SALT CONCENTRATIONS IN MG-SALT/LBM-WATER:

                   -1     0     0     0     0    -1

                 0     0     0     0     3     0
                    0     0     0     0     0

              0     1     0     0     0     0     0
                 0     0     0     0     0     0

           1     0     0     0     0     0     0     0
              0     0     2     0     0     0     0

        0     0     1     0     0     0     0     0     0
           0     0     2     0     2     0     0     0

    -1                                              -1

           0     0     0     0     0     0     0     0
        0     0     0     0     0     0     0     1     1

              0     0     0     0     0     0     0
           0     0     0     0     0     0     1     1

                 0     1     2     0     1     0
              0     0     0     0     0     0     0

                    0     0     0     7     2
                 0     0     5    19     0     0

                   -1     0     0    85    42    -1
```

Reynolds Number: 1542
Injection Subchannel: 114 (underlined)

Figure 4-67

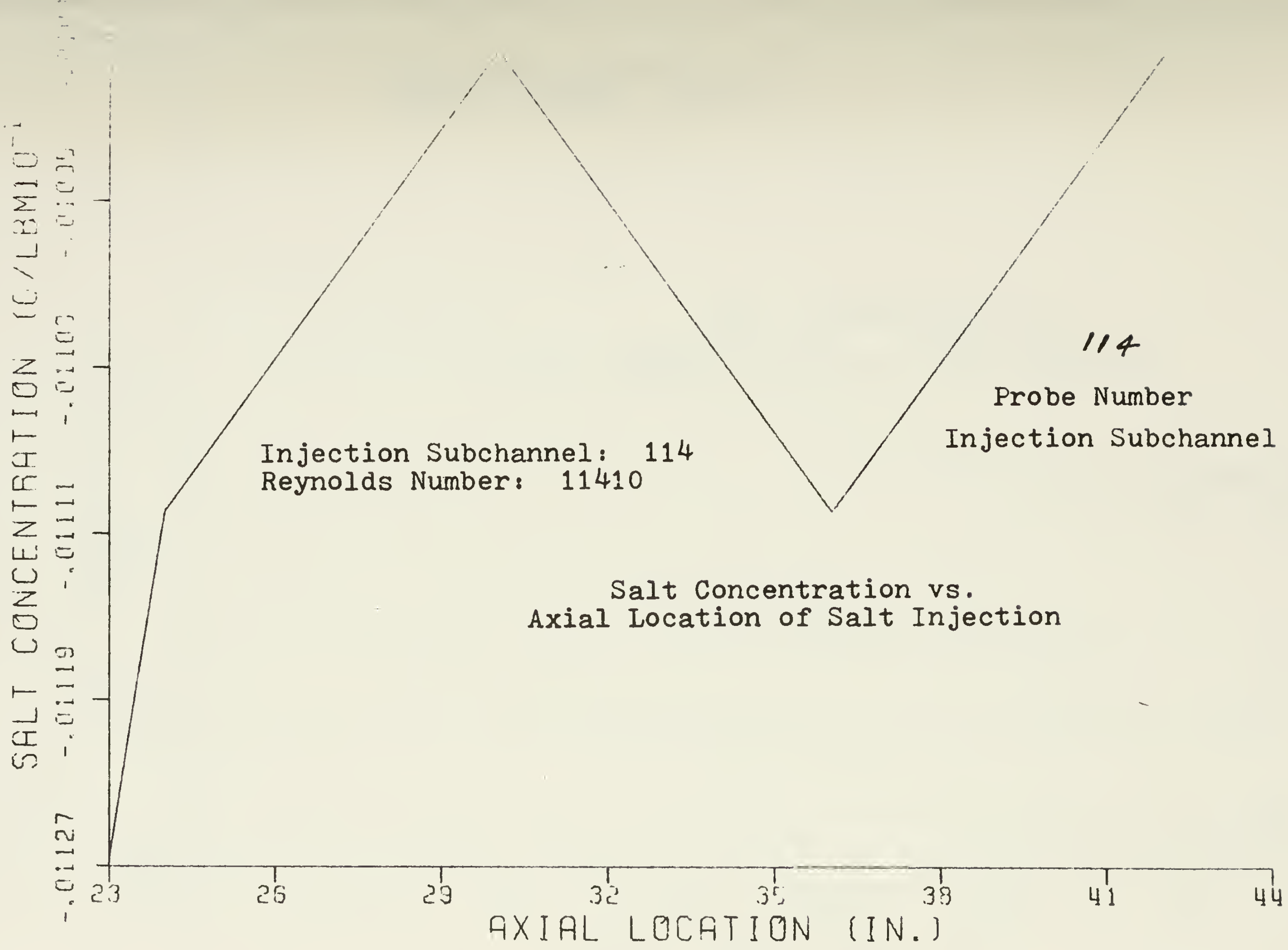
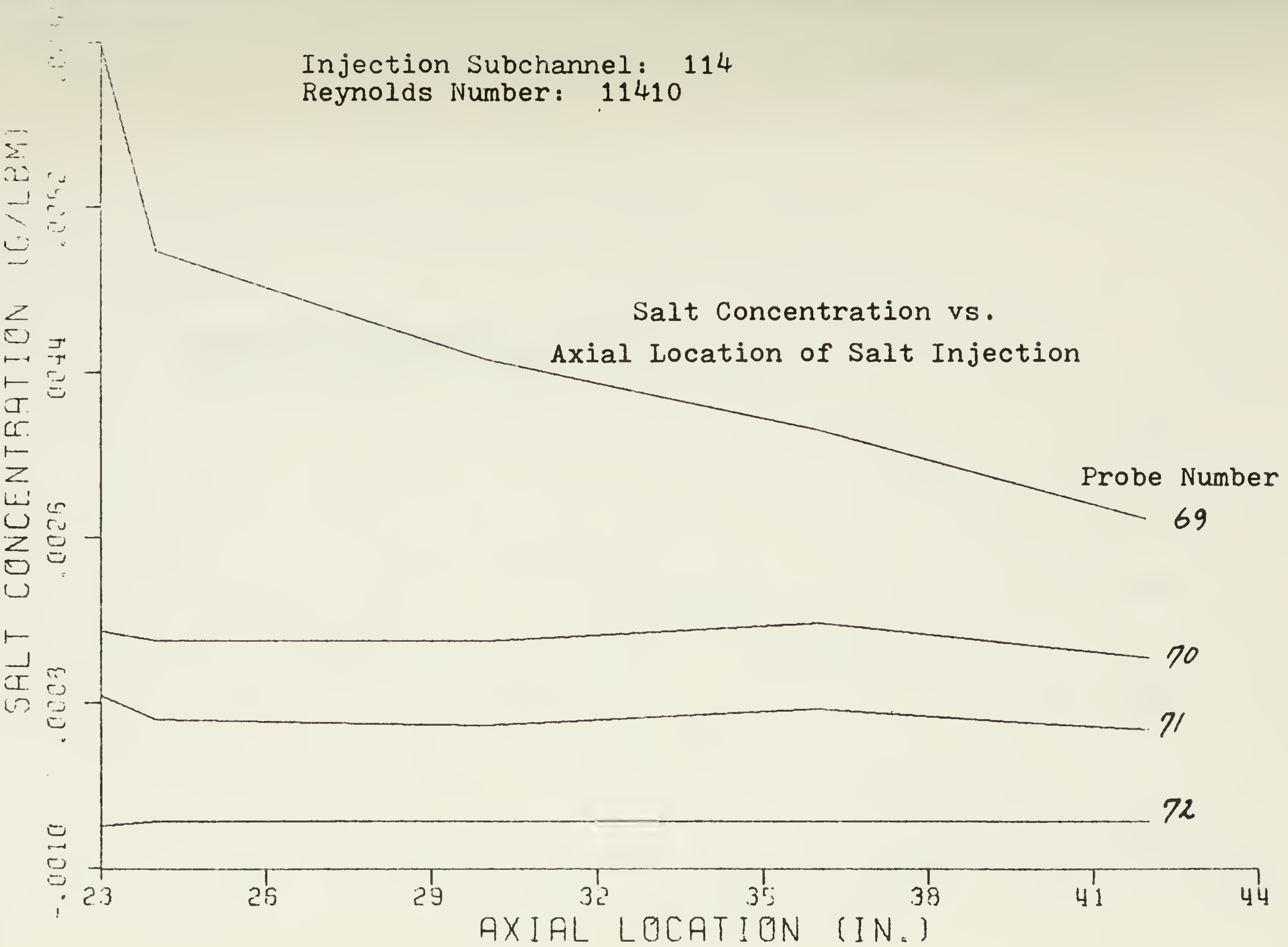

114
Probe Number
Injection Subchannel
Injection Subchannel: 114
Reynolds Number: 11410
Salt Concentration vs.
Axial Location of Salt Injection
SALT CONCENTRATION (C/LBM10
-.01127
-.01119
-.01111
-.01103
-.01095
23
26
29
32
35
38
41
44
AXIAL LOCATION (IN.)

Figure 4-68



Injection Subchannel: 114
Reynolds Number: 11410

Salt Concentration vs.
Axial Location of Salt Injection

Figure 4-69

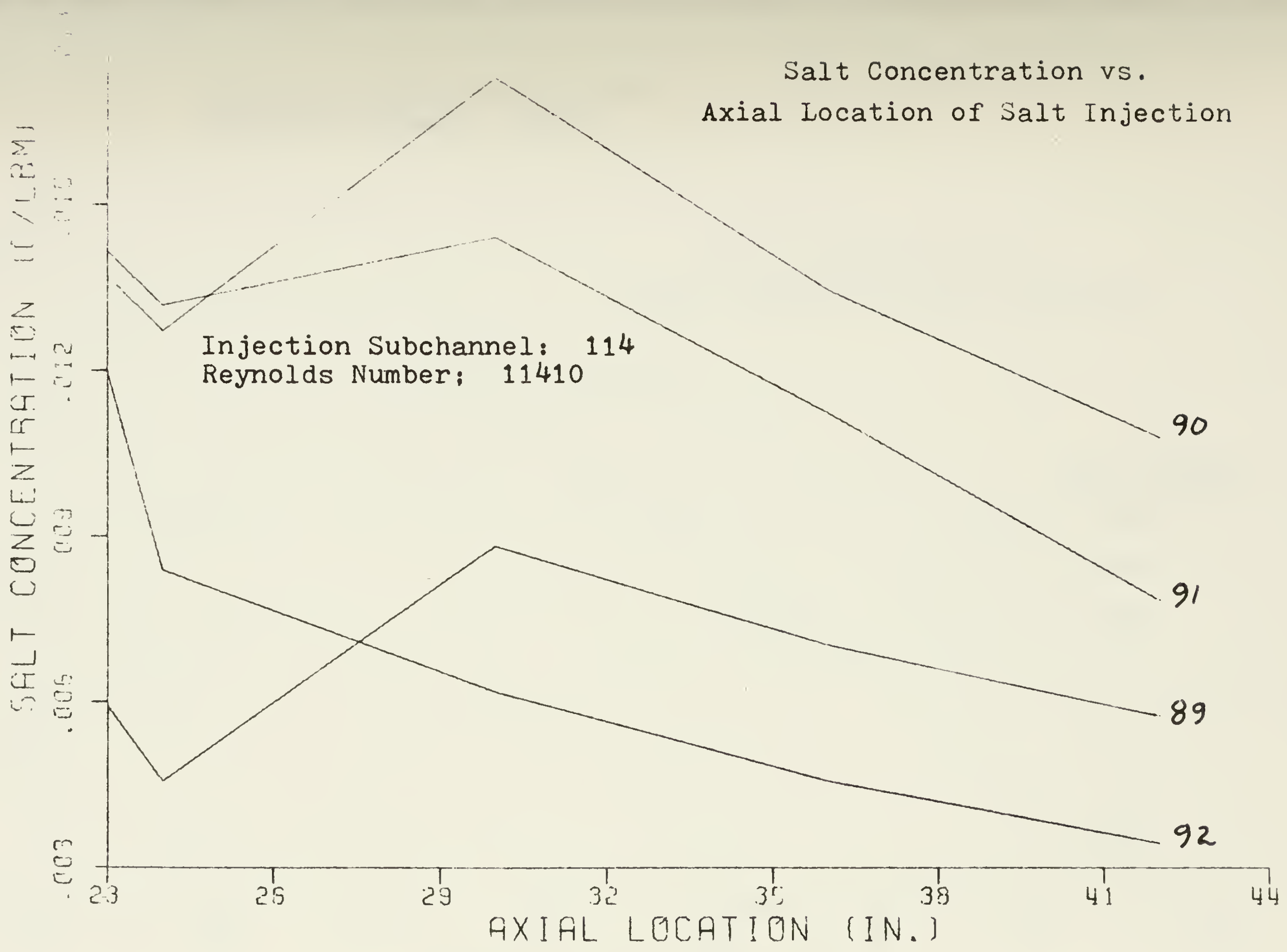

Salt Concentration vs.
Axial Location of Salt Injection
Injection Subchannel: 114
Reynolds Number; 11410
90
91
89
92
SALT CONCENTRATION (C/LBM)
.003
.006
.009
.012
.015
23
26
29
32
35
38
41
44
AXIAL LOCATION (IN.)

Figure 4-70

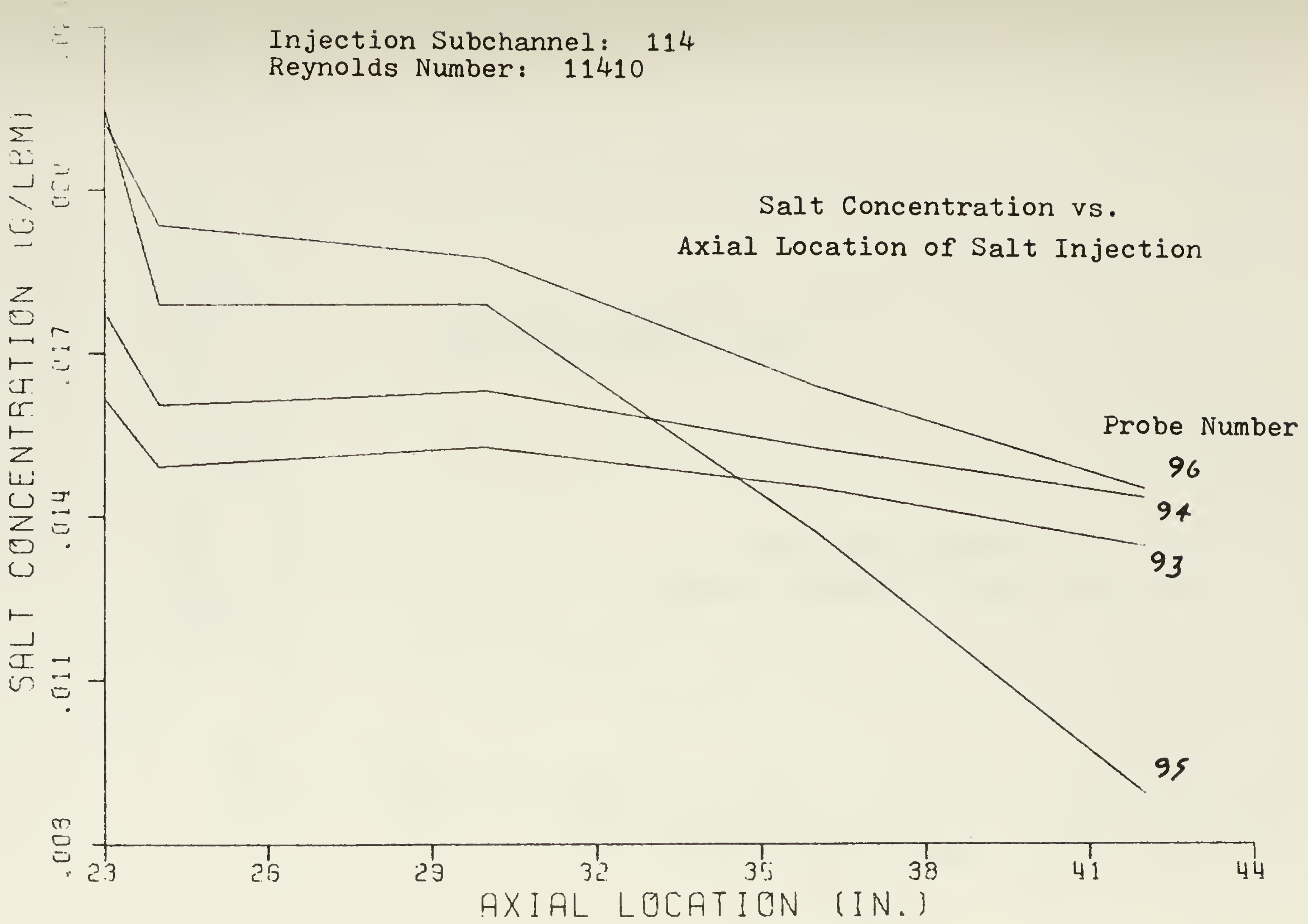

Injection Subchannel: 114
Reynolds Number: 11410
Salt Concentration vs.
Axial Location of Salt Injection
Probe Number
96
94
93
95
SALT CONCENTRATION (G/LBM)
.023
.020
.017
.014
.011
.008
23
26
29
32
35
38
41
44
AXIAL LOCATION (IN.)

Figure 4-71

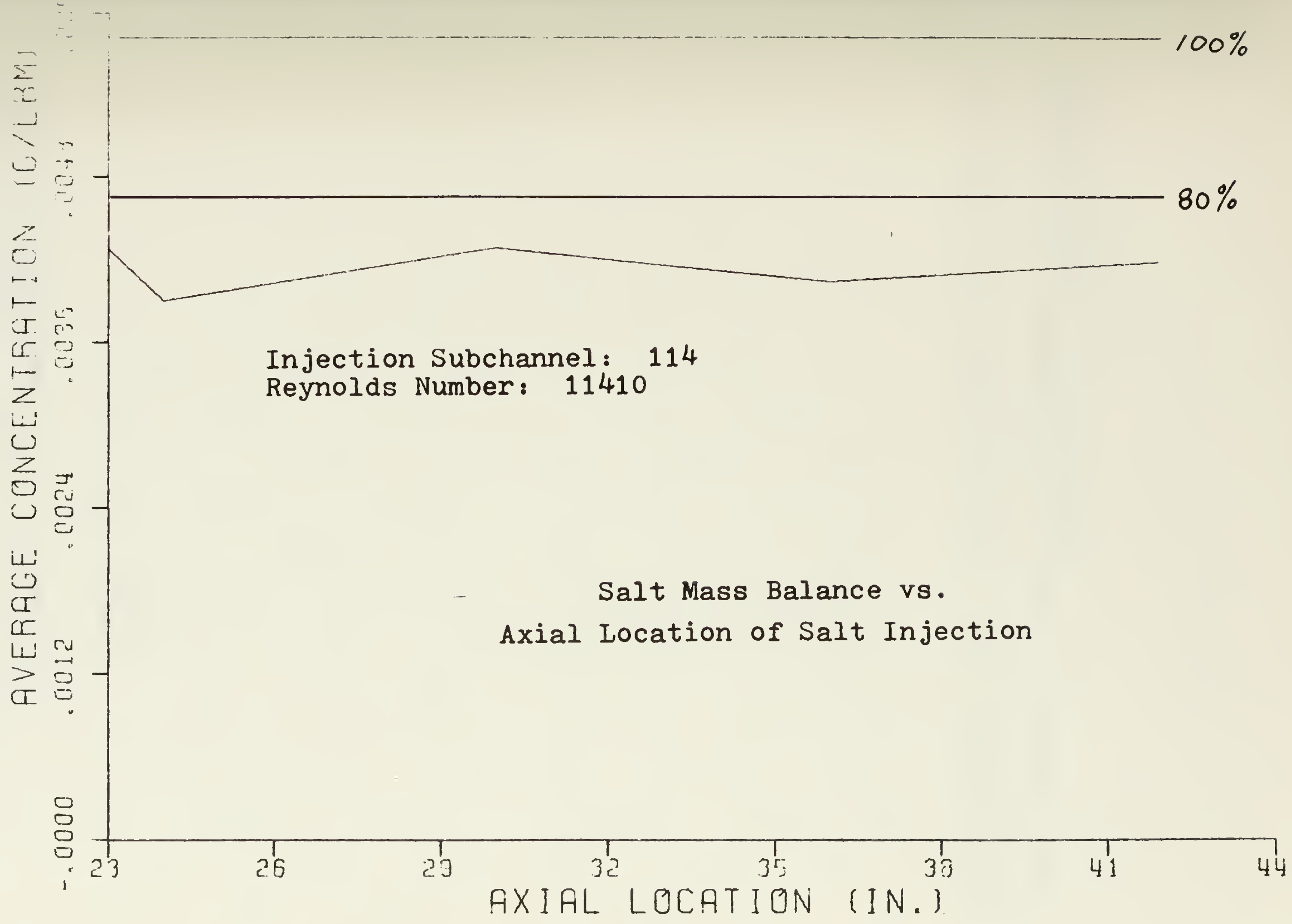

100%
80%
Injection Subchannel: 114
Reynolds Number: 11410
Salt Mass Balance vs.
Axial Location of Salt Injection
AVERAGE CONCENTRATION (G/LBM)
-.0000
.0012
.0024
.0036
.0048
23
26
29
32
35
38
41
44
AXIAL LOCATION (IN.)

Figure 4-72

```
AXIAL POSITION #   2
AXIAL LOCATION = 36.00 INCHES
AVERAGE SALT CONCENTRATION =0.0040 G-SALT/LBM-WATER

SU23HANNEL SALT CONCENTRATIONS IN MG-SALT/LBM-WATER:

                   -1     1     1     0     3    -1

                 0     0     0     0     6     2
                    0     0     0     0     1

              0     0     0     0     0     0     6
                 0     0     0     0     0     0

           2     0     0     0     0     0     0    15
              0     1     0     0     0     0     1

        0     0     1     0     0     0     0     0    41
           0     0     1     0     1     0     0     7

    -1                                              -1

           0     3     0     5     1     7     2     0
        0     0     4     0     0    14     3     7    27

              2     0     1     0     3     3    10
           0     0     0     8     0     2     2    17

                 0     7    11     5     7    11
              0     0     2     5     9    13    11

                    0     1     4    15    16
                 0     0     3    14    13     7

                   -1     0    -1     1     2    -1
```

Injection Subchannel: 114 (underlined)
Reynolds Number: 11410
See Figure 4-63a for wire wrap orientation

Figure 4-73

```
AXIAL POSITION #  4
AXIAL LOCATION = 24.00 INCHES
AVERAGE SALT CONCENTRATION =0.0039 G-SALT/LBM-WATER

SU23HANNEL SALT CONCENTRATIONS IN MG-SALT/LBM-WATER:

                      -1       0       0       0       3      -1

                   0       0       0       0       5       0
                       0       0       0       0       2

               0       2       0       0       0       0       0
                   0       0       0       0       0       0

           2       2       0       0       0       0       0       0
               0       1       1       0       0       0       0

       C      -1       2       0       0       0       0       0       4
           0       0       2       0       0       0       0       0

  -1                                                              -1

           0       1       0       3       0       0       0       0
       0       0       3       0       0       0       0       2      26

               1       0       1       0       1       0       2
           0       0       0       7       0       0       0      48

                   0       5      11       4       4      13
               0       0       2       5       8      12      40

                       0       1       8      16      19
                   0       0       5      14      17      26

                      -1       0      -1       1       9      -1
```

Reynolds Number: 11410
Injection Subchannel: 114 (underlined)

Figure 4-74

Injection Subchannel: 94
Reynolds Number: 1542

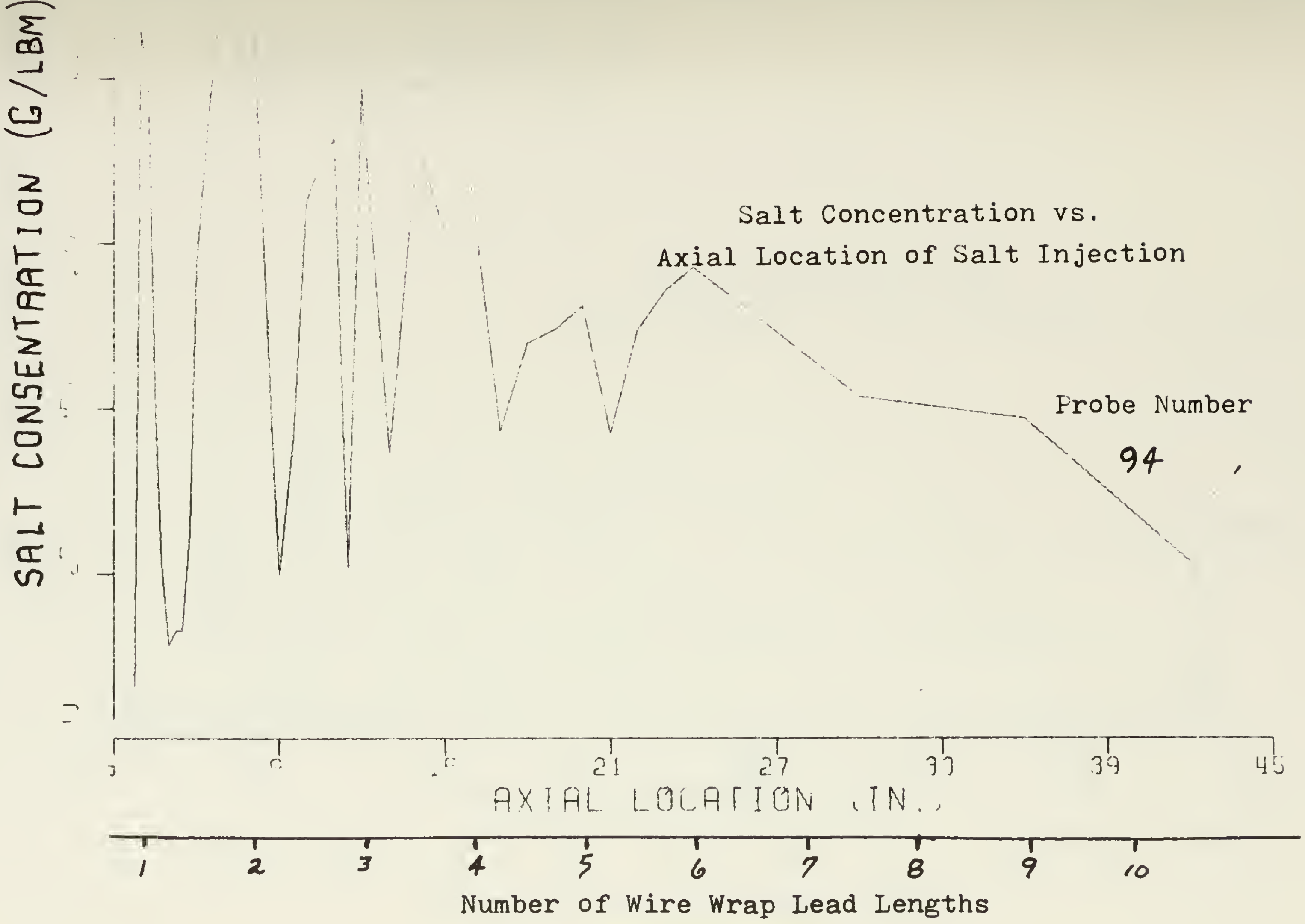


Figure 4-75

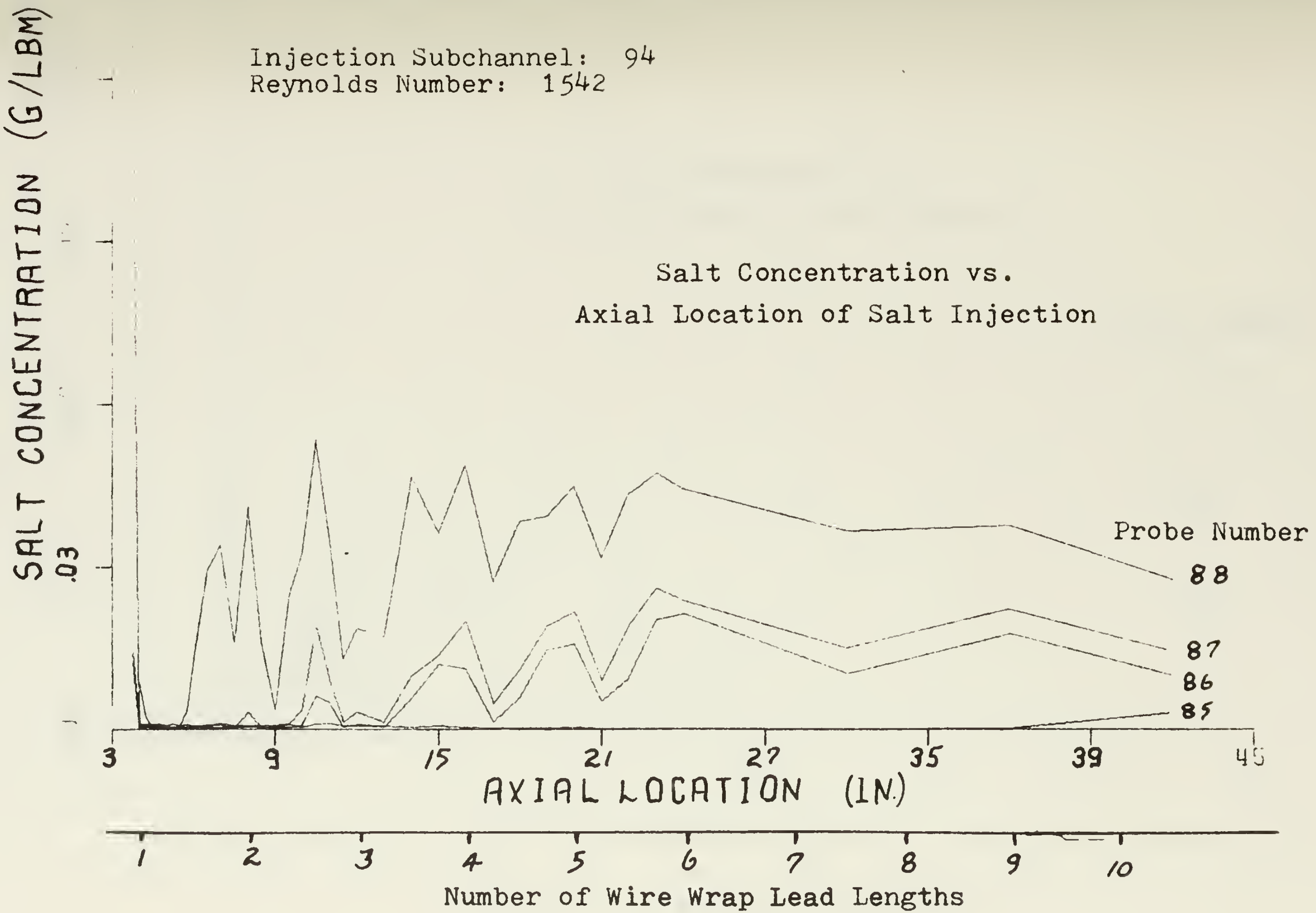

Injection Subchannel: 94
Reynolds Number: 1542
Salt Concentration vs.
Axial Location of Salt Injection
SALT CONCENTRATION (G/LBM)
.03
Probe Number
88
87
86
85
3
9
15
21
27
35
39
45
AXIAL LOCATION (IN.)
1
2
3
4
5
6
7
8
9
10
Number of Wire Wrap Lead Lengths

Figure 4-76

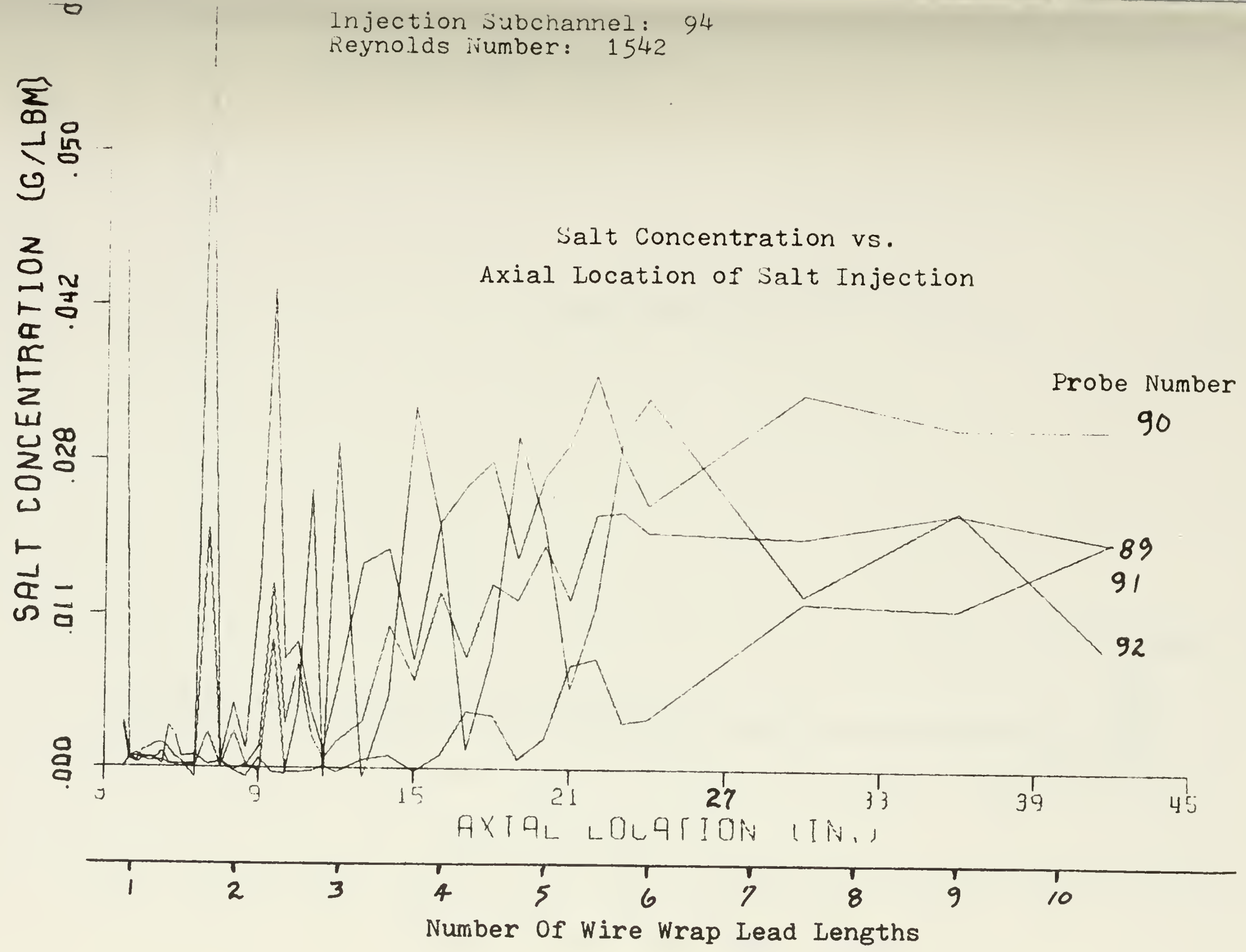
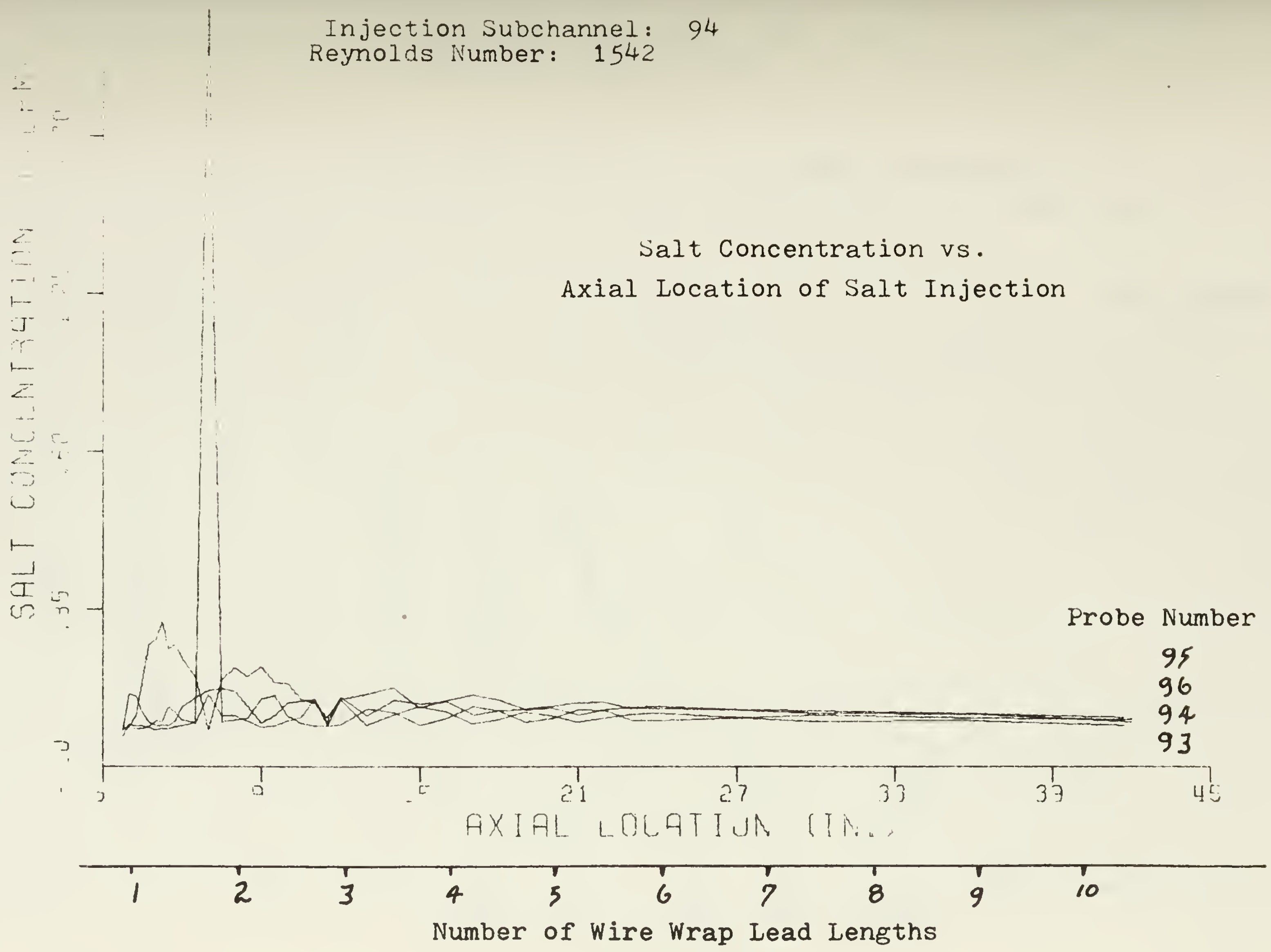

Injection Subchannel: 94
Reynolds Number: 1542
Salt Concentration vs.
Axial Location of Salt Injection
SALT CONCENTRATION (G/LBM)
.000
.011
.028
.042
.050
AXIAL LOCATION (IN.)
3
9
15
21
27
33
39
45
Probe Number
90
89
91
92
1
2
3
4
5
6
7
8
9
10
Number Of Wire Wrap Lead Lengths

Figure 4-77



Injection Subchannel: 94
Reynolds Number: 1542

Salt Concentration vs.
Axial Location of Salt Injection

Figure 4-78

Injection Subchannel: 94
Reynolds Number: 1542

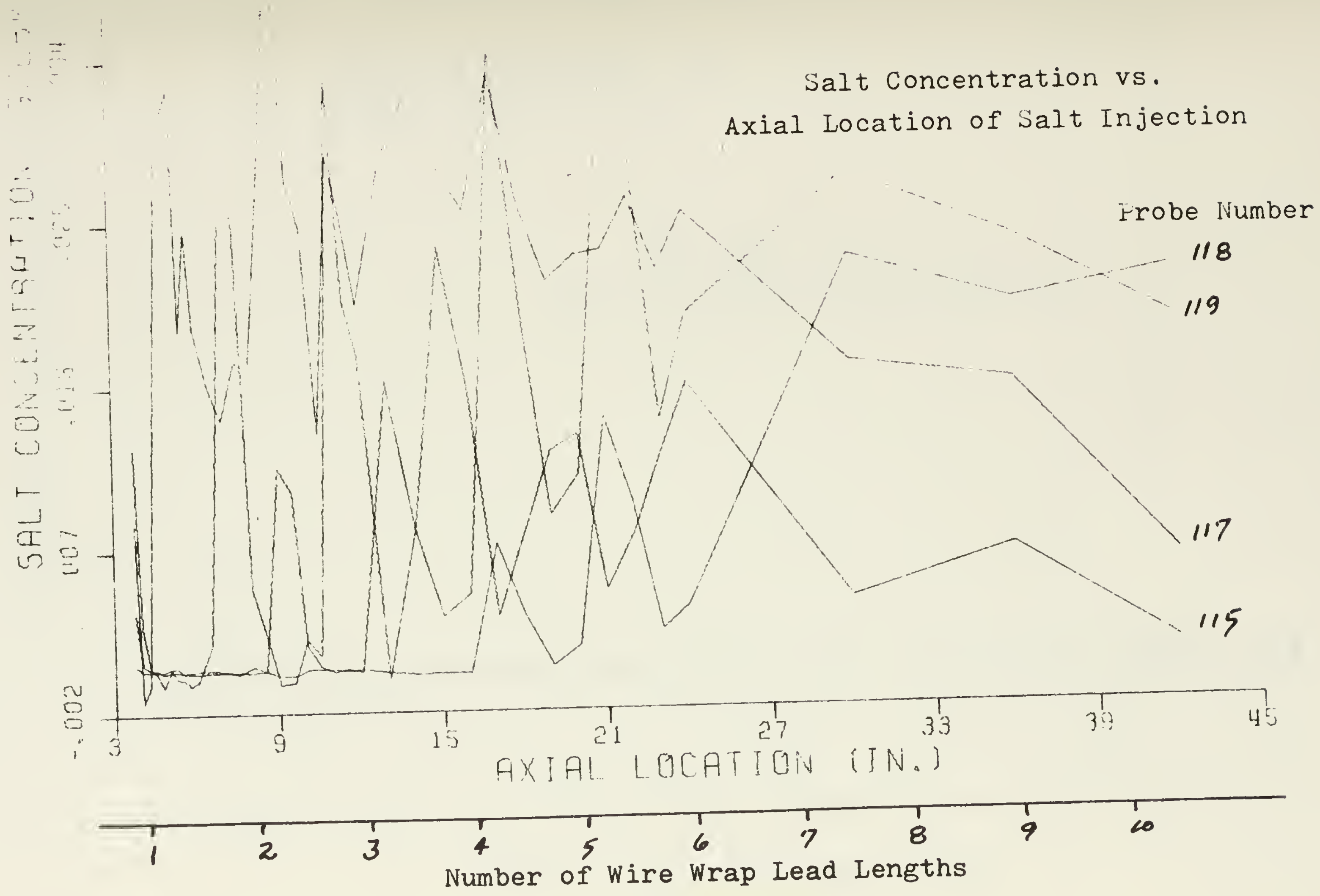
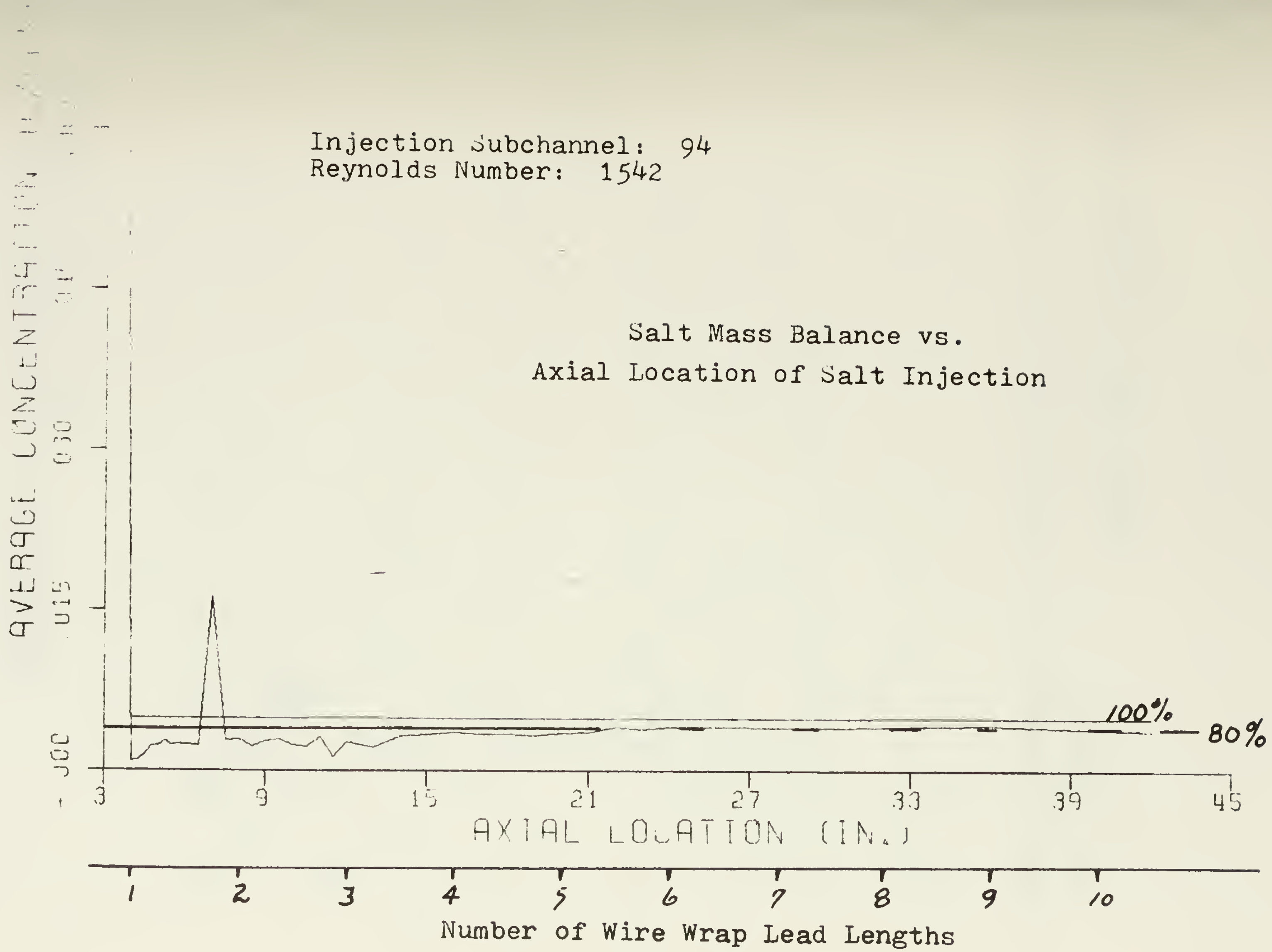


Figure 4-79


Injection Subchannel: 94
Reynolds Number: 1542

Salt Mass Balance vs.
Axial Location of Salt Injection

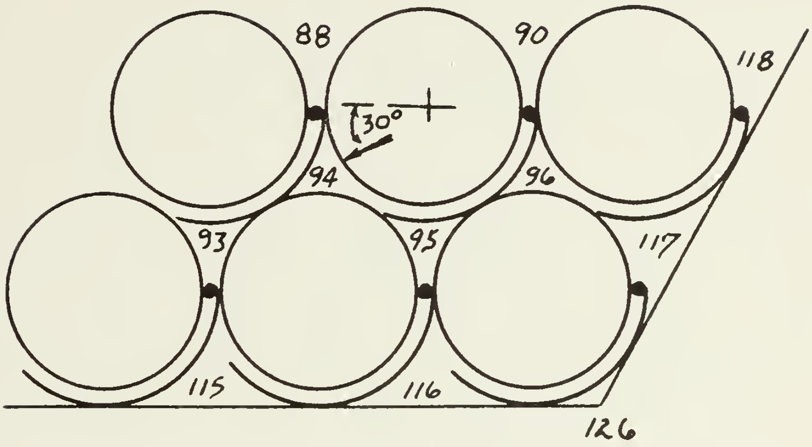
Figure 4-80

```
AXIAL POSITION #  2
AXIAL LOCATION = 36.00 INCHES
AVERAGE SALT CONCENTRATION =0.0043 G-SALT/LBM-WATER

SU23HANNEL SALT CONCENTRATIONS IN MG-SALT/LBM-WATER:

                -1     0    -1     0     0    -1

              0     0     0     0     3     0
                 0     0     0     0     0

           0     0     0     0     0     0     0
              0     0     0     0     0     0

        0    -1     0     0     0     0     0     0
           0     0     0     0     0     0     0

     0    -1    -1     0     0     0     0     0     2
        0     0     1     0     0     0     0     0

 -1                                             -1

        2    -1     0     2     9     0     0     1
     0     0     0     0     0     0     0     5     9

           0     0     1     1     6     1     0
        0     0     0    11     0    12     4    16

              0     3    13    22    23    14
           0     0     2    17    37    31    20

                 0     0    23    48    36
              0     0     6    31    50    23

                -1     0     0     6    15    -1
```

Reynolds Number: 1542
Injection Subchannel: 94 (underlined)

Figure 4-81

arrow shows salt injection point



Wire Wrap Orientation for Peripheral Injection
At 36, 28, 24, 20, 16, 12, 8, and 4 Inches

Figure 4-81a

```
AXIAL POSIΓION #   4
AXIAL LOCATION = 24.00 INCHES
AVERAGE SALT CONCENTRATION =0.0041 G-SALT/LBM-WATER

SU23HANNEL SALT CONCENTRATIONS IN MG-SALT/LBM-WATER:

                      -1       0      -1       0       0      -1

                   0       0       0       0       0       0
                       0       0       0       0       0

               0       0       0       0       0       0       0
                   0       0       0       0       0       0

          -1       0       0       0       0       0       0       0
               0       0       0       0       0       0       0

       0      -1      -1       0       0       0       0       0       0
           0       0       1       0       0       0       0       0

  -1                                                              -1

           2      -2       0       0       8       0       0       0
       0       0       0       0       0       0       0       1       0

               0       0       0       0       3       0       0
           0       0       0       8       0       7       0       7

                   0       1      12      23      21       4
               0       0       1      21      44      24       3

                       0       0      33      71      30
                   0       0       6      53      67      19

                      -1       0       0      15      25      -1
```

Reynolds Number: 1542
Injection Subchannel: 94 (underlined)

Figure 4-82

```
AXIAL POSITION # 10
AXIAL LOCATION = 18.00 INCHES
AVERAGE SALT CONCENTRATION =0.0035 G-SALT/LBM-WATER

SU23HANNEL SALT CONCENTRATIONS IN MG-SALT/LBM-WATER:

                   -1    -2     0     0     0    -1

                 0     0     0     0     3     0
                    0     0     0     0     0

              0     0     0     0     0     0     0
                 0     0     0     0     0     0

           0    -1     0     0     0     0     0     0
              0    -2     0     0     0     0     0

        0     0     0     0     0     0     0     0     1
           0     0     1     0     0     0     0     0

    -1                                                -1

           2    -1     0     0     1     0     0     0
        0     0     0     0     0     0     0     0     0

              0     0     0     0     0     0     0
           0     0     0     2     0     2     0     6

                 0     0     5    10    16     4
              0     0     0     5    38    27     3

                    0     0    10    59    56
                 0     0     0    32    92    19

                   -1     0     0     7    25    -1
```

Reynolds Number: 1542
Injection Subchannel: 94 (underlined)

Figure 4-83

```
AXIAL POSITION # 16
AXIAL LOCATION = 12.00 INCHES
AVERAGE SALT CONCENTRATION =0.0027 G-SALT/LBM-WATER

SU23HANNEL SALT CONCENTRATIONS IN MG-SALT/LBM-WATER:

                  -1    -5    -5      1    -3    -1

                0     1     0     0    -3     0
                   0     1     1     0    -3

             0    -2     1     0     0     0     0
                0     0     1     0     0     0

         -2    -3     1     0     0     1     0     0
             1    -4    -3     0     1     0     0

       0    -4    -3     1     1     0     0     1    -1
          0     1    -2     1    -2     1     0     1

   -1                                              -1

          4    -5     1    -4     0     1     0     0
       1     0    -2     0     0     0     0    -2    -3

            -4     0     0     1     0     0     0
          0     0     1    -3     0     0     0     1

                0    -2    -2     3     2     0
             0     1     0     0    18     7     0

                   1     0    29    98    20
                0     1     0    91    92     0

                  -1     0     0    17    20    -1
```

Reynolds Number: 1542
Injection Subchannel: 94 (underlined)

Figure 4-84

```
AXIAL POSITION # 20
AXIAL LOCATION = 10.00 INCHES
AVERAGE SALT CONCENTRATION =0.0024 G-SALT/LBM-WATER

SUBCHANNEL SALT CONCENTRATIONS IN MG-SALT/LBM-WATER:

                      -1      -4      -4       1      -2      -1

                   0       1       0       0      -2       0
                       0       1       1       0      -2

               0      -2       1       0       0       0       0
                   0       0       1       0       0       0

          -3      -8       1       0       0       1       0       0
               1      -4      -4       0       1       0       0

       0      -3      -1       0       1       0       1       1      -2
           0       1      -1       0      -3       1       0       1

  -1                                                              -1

           5      -6       0      -4       0       1       0       0
       1       1      -3       0       0       0       0      -3      -3

              -5       0       0       1       0       0       0
           0       0       1      -3       0       0       0       1

                   0      -2       0       3       4       0
               0       0       0       0      32       9       0

                       1       0       0      81      44
                   0       1       0      28     138       1

                      -1       0       0       2      24      -1
```

Reynolds Number: 1542
Injection Subchannel: 94 (underlined)

Figure 4-85

```
AXIAL POSITION # 22
AXIAL LOCATION =  9.00 INCHES
AVERAGE SALT CONCENTRATION =0.0028 G-SALT/LBM-WATER

SU23HANNEL SALT CONCENTRATIONS IN MG-SALT/LBM-WATER:

                      -1      -5      -4       1      -2      -1

                   0       1       0       1      -1       0
                       0       1       1       0      -1

               0      -2       1       0       0       0       0
                   0       0       1       0       0       0

          -3      -6       1       0       0       1       0       0
               1      -4      -3       0       1       0       0

       0      -3      -3       0       1       0       1       1      -2
           0       1       0       0      -3       1       0       1

  -1                                                              -1

           5      -9       0      -5       0       0       1       0
       1       1      -2       0       1       0       0      -3      -2

              -5       0       0       2       1       0       0
           0       0       0      -4       0       0       0       1

                   0      -1      -2       0       1       0
               0       0       0       0       3      16       0

                       1       0       0      24      92
                   0       1       0      12     186      11

                      -1       0       0       0      41      -1
```

Reynolds Number: 1542
Injection Subchannel: 94 (underlined)

Figure 4-86

```
AXIAL POSITION # 24
AXIAL LOCATION =  8.00 INCHES
AVERAGE SALT CONCENTRATION =0.0029 G-SALT/LBM-WATER

SU23HANNEL SALT CONCENTRATIONS IN MG-SALT/LBM-WATER:

                  -1    -4    -3     1    -2    -1

                0     1     0     1    -3     0
                   0     1     1     0    -1

             0    -2     1     0     0     0     0
                0     0     1     0     0     0

         -4    -4     1     0     0     1     0     0
             1    -3    -3     0     1     0     0

       0    -3    -1     0     0     0     0     1    -2
          0     1    -1     0    -2     1     0     1

   -1                                              -1

          5    -9     0    -5     0     0     0     1
       1     1    -2     0     0     0     0    -2    -3

            -3     0     0     1     0     0     0
          0     0     1    -4     0     0     0     0

                0    -2    -2     3     3     0
             0     0     0     0    41     5     0

                   1     0     0   114    33
                0     1     0    45   183     0

                  -1     0     0     4    16    -1
```

Reynolds Number: 1542
Injection Subchannel: 94 (underlined)

Figure 4-87

```
AXIAL POSITION # 28
AXIAL LOCATION =  6.00 INCHES
AVERAGE SALT CONCENTRATION =0.0024 G-SALT/LBM-WATER

SU23HANNEL SALT CONCENTRATIONS IN MG-SALT/LBM-WATER:

                      -1      -4      -4       1      -2      -1

                   0       1       0       1      -3       0
                       0       1       1       0      -1

               0      -2       1       0       0       0       0
                   0       0       1       0       0       0

          -2      -3       0       0       0       1       0       0
               1      -3      -5       0       1       0       0

       0      -3      -1       0       1       0       0       1       0
           0       1      -1       0      -3       1       0       1

  -1                                                              -1

           4      -8       0      -4       0       1       0       0
       1       0      -2       0       0       0       0      -3      -2

              -3       0       0       2       0       0       0
           0       0       1      -3       0       0       1       0

                   0      -1      -3       0       0       0
               0       0       0       0      12       0       0

                       0       0       0      71      33
                   0       1       0      14     211       0

                      -1       0       0       0      19      -1
```

Reynolds Number: 1542
Injection Subchannel: 94 (underlined)

Figure 4-88

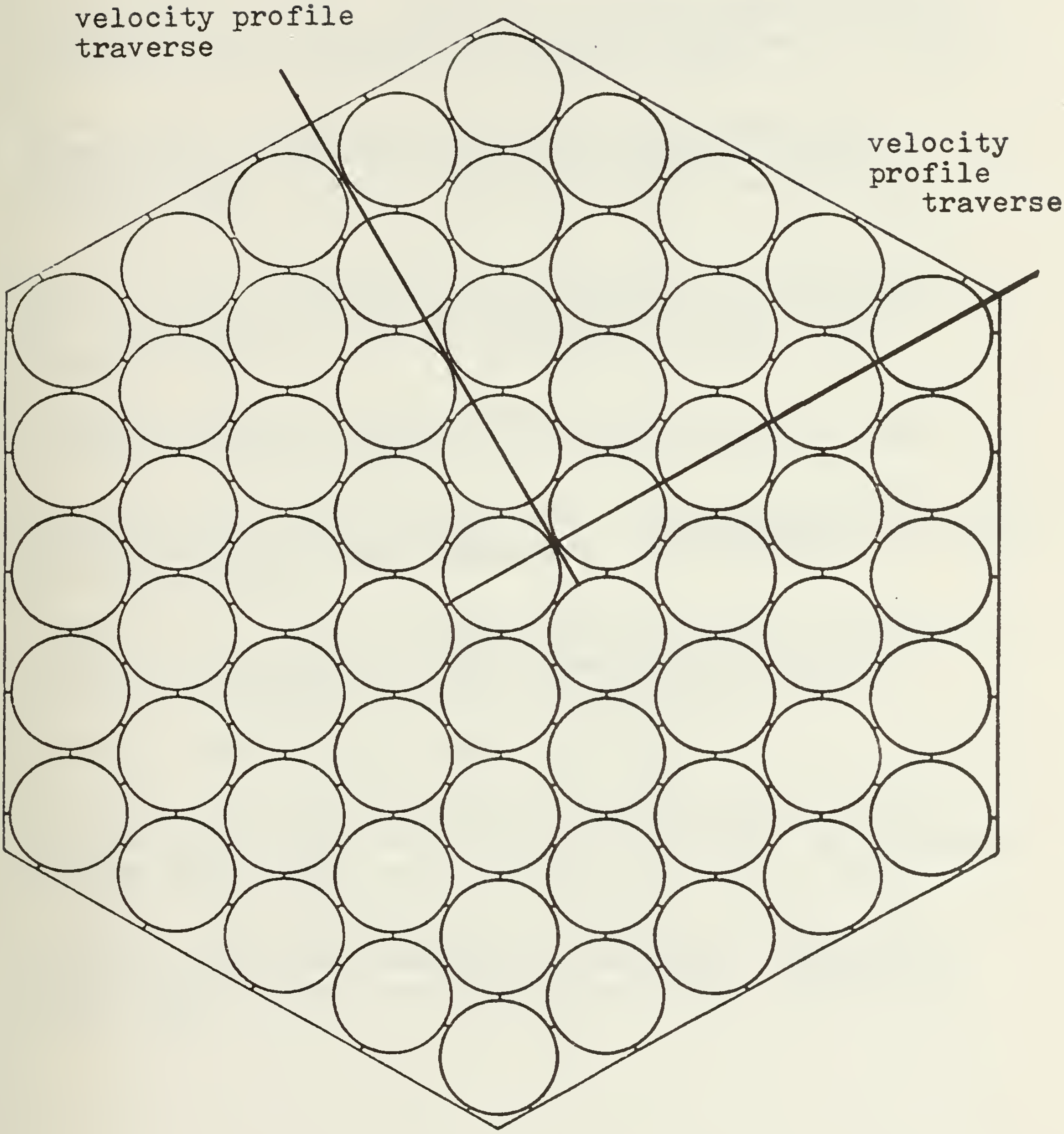


Figure 5-1
Suggested Velocity Traverses

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Appendix 1

COOLANT INTERCHANNEL MIXING

Given the severe radial neutron flux gradients and the wide range of flow conditions present in Liquid Metal Fast Breeder Reactors (LMFBR), large temperature gradients may be predicted across the reactor subassemblies. However, the coolant mixing phenomenon between interconnected subchannels in wire wrapped geometries results in considerably less severe temperature fields than those which result when only conduction is considered[6]. The two major hydrodynamic effects of the presence of wire wrap spacers are that they increase the pressure drop but enchance flow mixing. The mixing phenomenon can be summarized as shown in Table A1-1.

The natural mixing effects, turbulent interchange and diversion cross-flow, are those mixing processes which act in the absence of protuberances in the rod bundles. Turbulent interchange results from natural eddy diffusion between the subchannels. The time averaged magnitude of turbulent interchange at any subchannel boundary is zero.

Diversion cross-flow is the directed flow caused by radial pressure gradients between adjacent subchannels. These gradients are cuased by differences in subchannel heat-flux distribution and differences in subchannel hydraulic

diameter and fuel rod or flow housing eccentricity or bowing. Diversion cross-flow is most significant in the entrance length of channels, locations of abrupt geometry changes and locations where one subchannel boils sooner than adjacent subchannels, causing differences in void fraction and coolant properties between subchannels.

A1.2. Forced Mixing Effects [8]

Forced mixing is subchannel interchange caused by the presence of rod spacers or grids in the flow channel. The flow may be broken up in a random fashion which is called flow sweeping. Flow scattering is analogous to turbulent interchange in natural mixing while flow sweeping is analogous to diversion cross-flow.

Flow sweeping is the predominant mode of energy transfer in LMFBR subassemblies. As the coolant proceeds axially through the subassembly, the flow sweep between any two rods alternates in direction as shown in figure A1-1. The flow is maximum where the wires cross the gap between the rods, and it reverses direction between adjacent spacer locations. At the subassembly walls, the flow, called swirl flow, is always in one direction. Fluctuations in swirl flow are caused by wire wraps alternately sweeping flow towards and away from the wall. At the axial location where sweep flow goes

to zero, a diversion cross-flow can exist which is periodic(1). Turbulent exchange causes no cross-flow but can affect momentum and energy balances.

A1.3. Significance of Mixing

For LMFBR's, predictions of the reduction of temperature gradients by the mixing phenomenon in wire wrap spaced fuel subassemblies are significant for designing to limits in the following areas [7]:

1. Cladding hot spots
2. Fuel assembly flow housing bowing
3. Subchannel flow blockage

Core thermal performance is adversely affected by the larger the temperature difference between the nominal fuel cladding temperature and the hot spot limit. This temperature difference is affected by subchannel effects and detailed flow and geometry effects. The various effects are taken into account by hot channel factors which characterize coolant temperature and film temperature differences between subchannels. These differences are derived both from subchannel geometrical variations between bundle edge and central subchannesl which induce subchannel velocity differences and from the radial power distribution. Local perturbations of a fuel rod and adjacent fuel rods cause circumferential cladding

temperature variations. Perturbations can be caused by fuel pellet stacking irregularities or cladding faults. Further effects are caused by the addition of fabrication tolerances in fuel rods, spacers and flow housing. Flow area differences can be caused by differences in thermal and irradiation swelling of fuel rods. Irradiation induced swelling of the stainless steel fuel rod is temperature dependent. Mixing acts to homogenize temperature imbalances between bundle subchannels and can have a large impact on local velocity profiles through diversion cross-flow and flow sweep. Accurate mixing predictions are,therefore, important in predicting hot channel factors.

Flow housing bowing is caused by radial differences in bulk fluid temperatures and irradiation induced swelling. Duct bowing is important in fast reactors because they are neutronically sensitive to small amounts of fuel movement. Prediction of the mixing effect in flattening radial temperature profiles is important in accurately predicting flow housing deformations.

The consequences of subchannel flow blockages in terms of downstream temperature excursions are likely to be lessened by mixing effects. This means, however, that there is less of a high temperature subchannel flow to aid in detection of a flow blockage.

Table A1-1

Mixing Phenomena

	Natural Mixing Effects	Forced Mixing Effects
Nondirectional flow effects	Turbulent Interchange	Flow Scattering
Directional flow effects	Diversion Cross-flow	Flow Sweeping

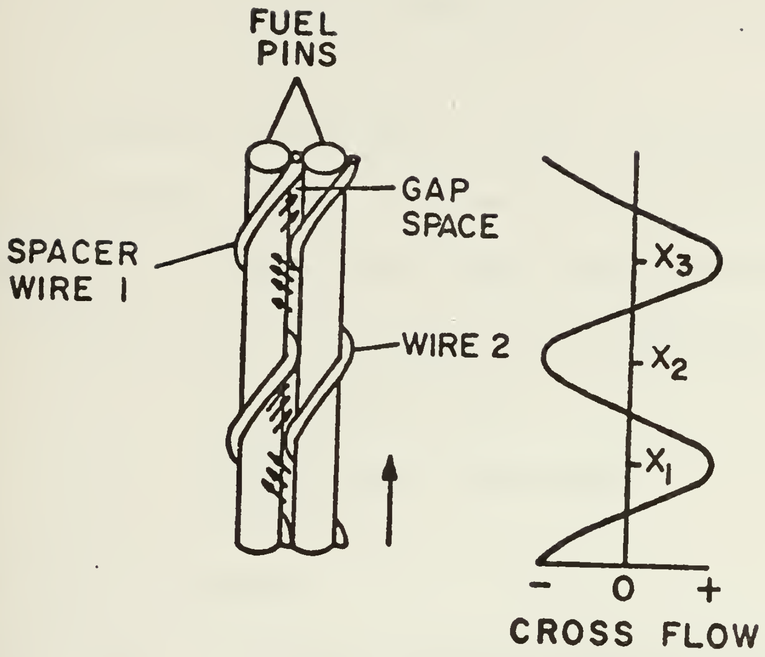

Figure A1-1 (Ref. 2)

Appendix 2

EQUIPMENT LIST

This appendix is included to list the electrical and hydraulic equipment used, the chemical solutions associated with conductivity measurements and commercial materials used in constructing the experimental apparatus.

Table A2-1

Experimental Equipment

Chemicals and Solutions

Tracer Salt: Sodium Chloride, Mallinckrodt Chemical Works, No. 7581, A.C.S. Purity.

Platinizing Solution: Yellow Springs Instrument Co., YSI 3140, Platinium Chloride 3% dissolved in 0.025% Lead Acetate Solution.

Cell Cleaner: 100 milliliters Isopropyl Alcohol, 100 milliliters Ethyl Ether, 50 milliliters concentrated Hydrochloric Acid, and 50 milliliters distilled water.

Electrical Equipment

Platinizing Kit: Yellow Springs Instrument Co., YSI 3139.

Data Acquisition System: Designed and constructed by Alan S. Hanson, Graduate Student, Nuclear Engineering Department, MIT.

Hydraulic Equipment

Pump-Motor Sets: Bell and Gossett Co., Hydro-Flow Centrifugal pumps, Factory Numbers 436983 11W and 436984 11W, Catalog No. 2-1/2A 7AB, 1510 Type B, 20HP @ 3450RPM, 300GPM @ 180 ft. water (78psig).

Main Flow Meters

Fisher Porter Co., Precision Bore Flowrater, Model 10A3567A, SM6610A4743B1, Tube No. FP-2-27-6-10/83, Float T602GNSWGT-98, 0-37GPM water.

Fisher Porter Co., Precision Bore Flowrater, Tube No. FP 1-1/2-27-G-10/83, Model 10A 3563A, SN6612A408681, Float No. T6-11/2GNSWG 9-86, 0-20GPM water.

Fisher Porter Co., By-Pass Oriflowrater, Model No. B3565-7-3-GD-BSY, SN7404A0514A2, Oriface Plate No. 625A016U06, 0-370GPM water.

Injection Flow Meters

Fisher Porter Co., Precision Bore Flowrater,

Tube No. 2-F-1/4-20-5/70, glass float..
Fisher Porter Co., Precision Bore Flowrater,
Tube No. FP-1/8-20G, glass float.

Materials

Stainless Steel Solder: STAIN TIN 157PA, Eutectic and Castolin Institute

Polyurethane: GLIDDEN All Purpose SPRED Urethane Liquid Plastic.

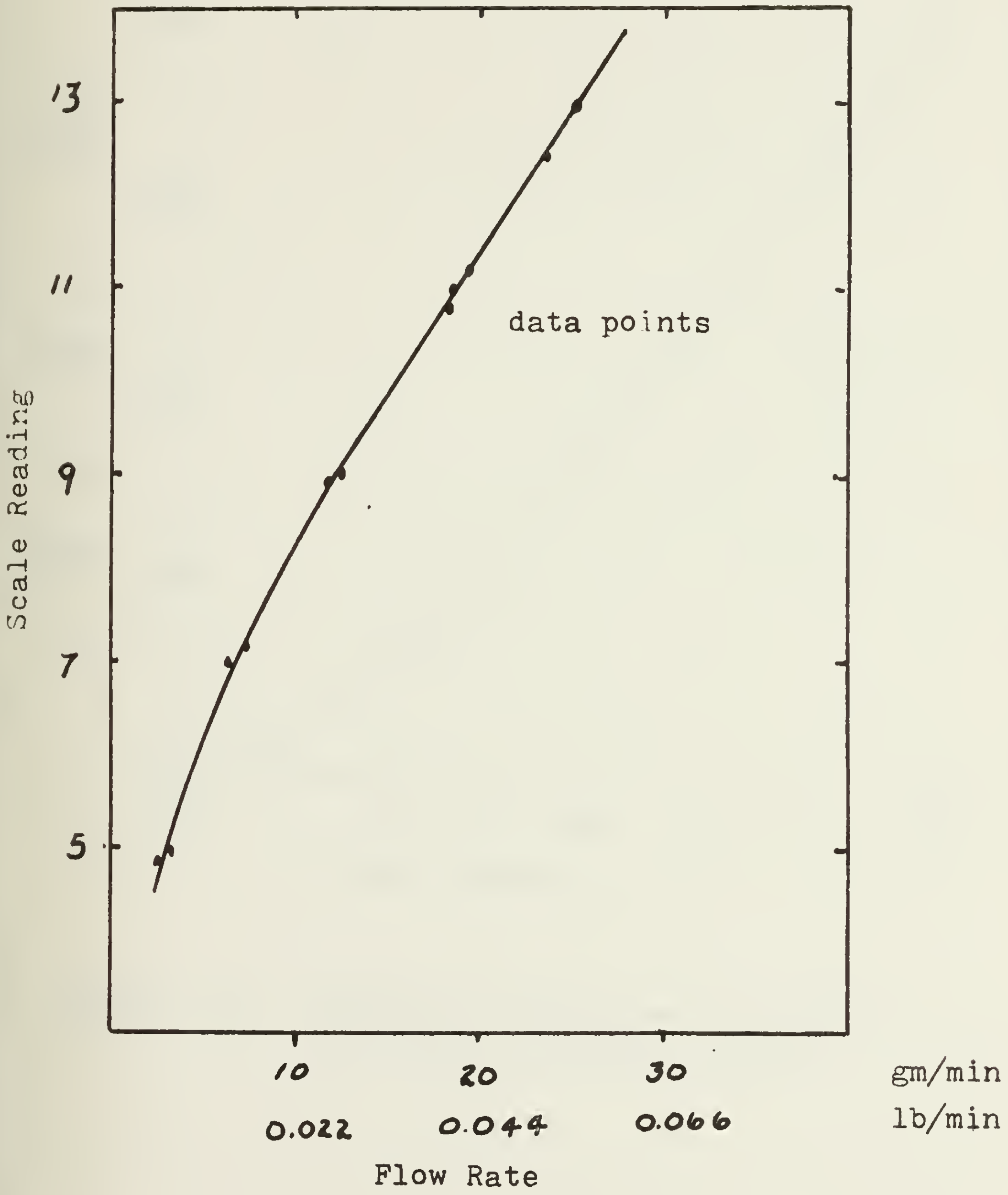

Figure A2-3 Calibration Curve For the 1/8 Inch Injection Flow Meter

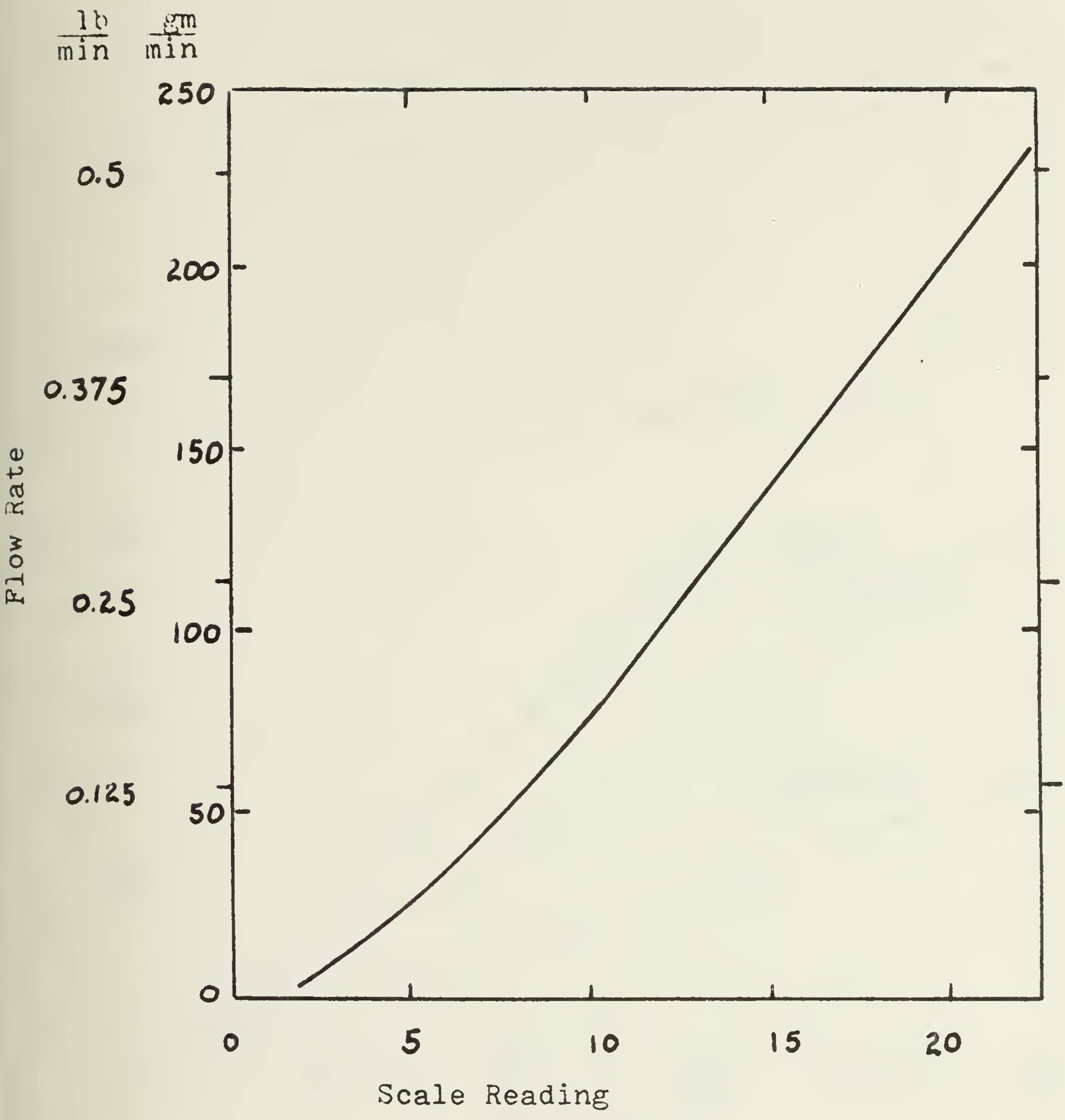

Figure A2-2 Calibration Curve For the $\frac{1}{4}$ Inch Injection Flow Meter (Ref.4)

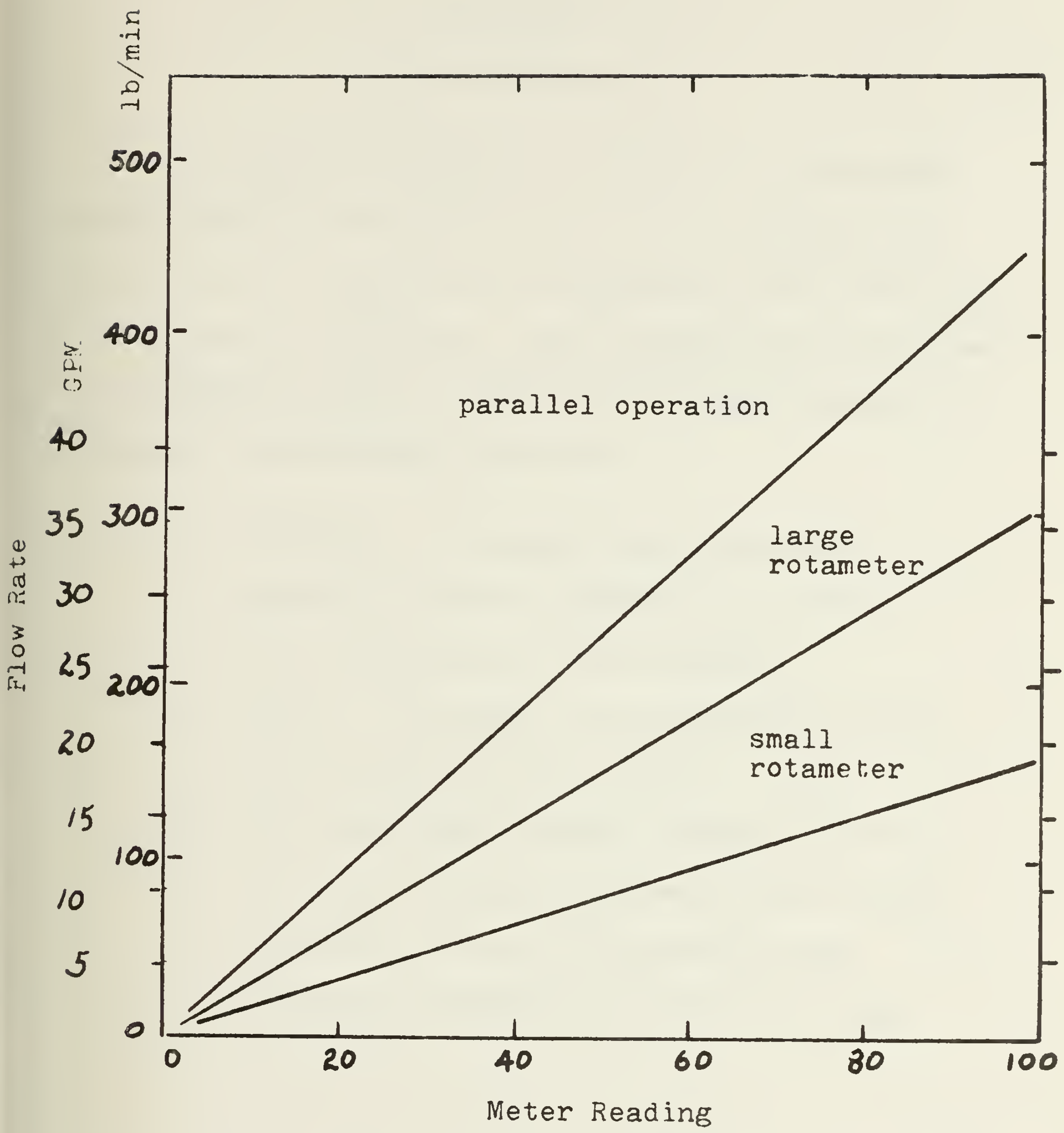

Figure A2-1 Flow Meter Calibration Curves (Ref. 4)

Appendix 3

Data Reduction

This appendix contains a listing of the computer programs used to reduce the salt solution mixing data. Instructions for punching the appropriate data cards for the programs are included. The following three programs were developed by Alan S. Hanson, a Graduate Student in the Nuclear Engineering Department.

1. GEOSPLIT - calculates the geometrical parameters and the pressure drop for a given subassembly (wire wrapped)
2. CALIB - calculates the calibration curves for the conductivity probes
3. Data reduction program - reduces the data for a salt mixing experiment from voltage readings to axial salt distributions. Inputs from GEOSPLIT and CALIB are used.

GEOSPLIT Data Cards

<table>
<tr><th>CARD</th><th>SPACES</th><th>FORMAT</th><th>CODE WORD</th></tr>
<tr><td>1</td><td>1-5</td><td>15</td><td>KASE</td></tr>
<tr><td colspan="4">Case number</td></tr>
<tr><td>1</td><td>6-10</td><td>15</td><td>ISPLIT</td></tr>
<tr><td colspan="4">Determines option of calculating flow split by setting velocity ratios or by Sangster method
ISPLIT - 0 for Sangster
ISPLIT - 1 for velocity ratios</td></tr>
<tr><td>1</td><td>11-74</td><td>16A4</td><td>TEXT</td></tr>
<tr><td colspan="4">Description of case</td></tr>
<tr><td>2</td><td>1-10</td><td>F10.4</td><td>DIATOL</td></tr>
<tr><td colspan="4">Diametrical tolerance - difference between across flats of hex. with and without tolerances</td></tr>
<tr><td>2</td><td>11-20</td><td>F10.4</td><td>FLOOSE</td></tr>
<tr><td colspan="4">Looseness factor 0 to 1
See reference 23.</td></tr>
<tr><td>2</td><td>21-25</td><td>F5.0</td><td>PINS</td></tr>
<tr><td colspan="4">Number of rods</td></tr>
<tr><td>2</td><td>26-35</td><td>F10.4</td><td>RC</td></tr>
<tr><td colspan="4">Duct corner radius</td></tr>
</table>

CARD	SPACES	FORMAT	CODE WORD
2	26-45	F10.4	DPIN
Rod diameter in inches			
2	46-55	F10.4	DWIR
Wire wrap diameter in inches			
2	56-60	F5.0	LEAD
Wire wrap lead length in inches			
2	61-75	3F5.3	WFACT(I),I=1,3
Fraction of wire per subchannel for each subchannel type 1. edge - 0.5 2. central - 0.5 3. corner - 0.1667			
3	1-10	F10.4	CONST
Constant in friction factor term. For example 0.316 from Blasius equation			
3	11-20	F10.4	REXP
Exponent on Reynolds number in friction factor equation.			
3	21-30	F10.4	TWATER
Water temperature in degrees F			

CARD	SPACES	FORMAT	CODE WORD
3	31-40	F10.4	GTOT

Flow rate in gpm

Repeat for each case. For example a set of three cards is needed for each flow rate investigated.

LAST CARD	5	I5	ISPLIT

Numeral zero (0) to stop program

```
C
C     GEOSPLIT--A CODE TO CALCULATE THE GEOMETRIC PARAMETERS, THE FLOW
C              DISTRIBUTION, AND THE AXIAL PRESSURE GRADIENT OF AN
C              HEXAGONAL ROD ARRAY WITH WATER AS COOLANT
C
    1 FORMAT(2I5,16A4)
    3 FORMAT(2F10.4,F5.0,3F10.4,F5.0,3F5.3)
    4 FORMAT(6F10.4)
    5 FORMAT(1H1,30X,'CASE',I5,5X,16A4 //)
    6 FORMAT(25H **GEOMETRIC PARAMETERS** //
     1       34H NUMBER OF RODS                    F8.0 /
     2       34H ROD DIAMETER (IN.)                F8.4 /
     3       34H WIRE WRAP DIAMETER (IN.)          F8.4 /
     4       34H WIRE WRAP LEAD (IN.)              F8.4 /
     5       34H RADIUS OF DUCT CORNER (IN.)       F8.4 /
     6       34H LOOSENESS FACTOR                  F8.4 /
     7       34H DUCT DIAMETRICAL TOLERANCE (IN.) F8.4 /
     8       34H EDGE GAP (IN.)                    F8.4 /
     9       34H ROD PITCH (IN.)                   F8.4 /
     X       34H PITCH-TO-DIAMETER RATIO           F8.4 /
     Y       34H DISTANCE ACROSS FLATS (IN.)       F8.4 //)
    7 FORMAT(35H **OVERALL BUNDLE CHARACTERISTICS** //
     1       40H TOTAL NUMBER OF SUBCHANNELS                 F8.0 /
     2       40H TOTAL FREE FLOW AREA (SQ.IN.)               F8.4 /
     3       40H TOTAL HEATED PERIMETER (IN.)                F8.4 /
     4       40H TOTAL WETTED PERIMETER (IN.)                F8.4 /
     5       40H BUNDLE AVERAGE HYDRAULIC DIAMETER (IN.) F8.4 /
     6       40H TOTAL BUNDLE FLOWRATE (GPM)                 F8.3 /
     7       40H TOTAL BUNDLE FLOWRATE (LBM/MIN)             F8.3 /
     8       40H BUNDLE AVERAGE VELOCITY (FT/SEC)            F8.3 /
     9       40H BUNDLE AVERAGE REYNOLDS NUMBER              F8.0 //)
    8 FORMAT(42H **INDIVIDUAL SUBCHANNEL CHARACTERISTICS**,
     1  22X,'CHANNEL TYPE' // 45X,'PERIPHERAL',11X,'INTERIOR',
     2  13X,'CORNER' /)
    9 FORMAT(34H NUMBER OF SUBCHANNELS             1F18.0,2F20.0 /
     1       34H FRACTION OF WIRE PER SUBCHANNEL   3F20.6        /
```

```
     2         34H AVERAGE FREE FLOW AREA (SQ.IN.)   3F20.6         /
     3         34H HEATED PERIMETER (IN.)            3F20.6         /
     4         34H AVERAGE WETTED PERIMETER (IN.)    3F20.6         /
     5         34H AVERAGE HYDRAULIC DIAMETER (IN.) 3F20.6          /
     6         34H FRACTION OF FLOW PER SUBCHANNEL   3F20.6         /
     7         34H SUBCHANNEL VELOCITY RATIO         3F20.6         /
     8         34H SUBCHANNEL FLOWRATE (LBM/MIN)     3F20.6         /
     9         34H SUBCHANNEL AXIAL VELOCITY (FPS)   3F20.6         /
     X         34H SUBCHANNEL REYNOLDS NUMBER        3F20.0         //)
  10 FORMAT(24H **GAP CHARACTERISTICS** /
     1   24X,45H  GAP SPACING   CENTROID-TO-CENTROID DISTANCE /
     2   24X,45H     (IN.)                 (IN.)              //
     3         24H PERIPHERAL-PERIPHERAL  F12.6,F21.6 /
     4         24H PERIPHERAL-INTERIOR    F12.6,F21.6 /
     5         24H PERIPHERAL-CORNER      F12.6,F21.6 /
     6         24H INTERIOR-INTERIOR      F12.6,F21.6 //)
  11 FORMAT(21H **WATER TEMPERATURE=,F5.1,' F,', 9H DENSITY=,F6.2,' LBM
     X/FT3,',11H VISCOSITY=,F5.3,' LBM/HR-FT.'/)
  12 FORMAT(52H **FLOW SPLIT CALCULATED FROM GIVEN VELOCITY RATIOS./)
  13 FORMAT(82H **FLOW SPLIT CALCULATED USING SANGSTER METHOD WITH A FR
     XICTION FACTOR EXPONENT OF ,F5.3 /)
  14 FORMAT(36H **EXPECTED AXIAL PRESSURE GRADIENT=, F6.3,' PSI/FOOT OF
     X LENGTH' /)
C
      COMMON /GEOM/ DIATOL,FLOOSE,PINS,RC,DPIN,DWIR,LEAD,X1,X4,RATIO,DF,
     1              ACHAN(3),PHCHAN(3),PWCHAN(3),DHYD(3),WFACT(3),NC(3),
     2              GS(3,3),GDIST(3,3),NCTOT,ATOT,PHTOT,PWTOT,DHYDAV,
     3              CONST,REXP,DEXP,TWATER,RHOT,VISCT,WTOT,VTOT,RETOT,
     4              W(3),V(3),RE(3),VELFAC(3),FLOFAC(3),DELTAP
      DIMENSION TEXT(16)
      REAL N,NC,NCTOT,LEAD
  99 READ(5,1) KASE,ISPLIT,TEXT
      IF(KASE.LE.0) STOP
      READ(5,3) DIATOL,FLOOSE,PINS,RC,DPIN,DWIR,LEAD,(WFACT(I),I=1,3)
      CALL GEOMAT
      READ(5,4) CONST,REXP,TWATER,GTOT
```

```
    VISCT= (.84271E+01) - (.18023E+00)*TWATER + (.18975E-02)*TWATER**2
   X                    - (.79539E-05)*TWATER**3
    SPVOL= (.16554E-01) - (.28305E-04)*TWATER + (.47509E-06)*TWATER**2
   X                    - (.24592E-08)*TWATER**3
    RHOT=1.0/SPVOL
    WTOT=GTOT*RHOT/7.481
    IF(ISPLIT.LT.1.) GO TO 50
    READ(5,4) (VELFAC(I),I=1,3)
 50 CONTINUE
    CALL SPLIT(ISPLIT)
    WRITE(6,5) KASE,TEXT
    WRITE(6,6) PINS,DPIN,DWIR,LEAD,RC,FLOCSE,DIATOL,X1,X4,RATIO,DF
    WRITE(6,7) NCTOT,ATOT,PHTOT,PWTOT,DHYDAV,GTOT,WTOT,VTOT,RETOT
    WRITE(6,8)
    WRITE(6,9) (NC(I),I=1,3),(WFACT(I),I=1,3),(ACHAN(I),I=1,3),
   X           (PHCHAN(I),I=1,3),(PWCHAN(I),I=1,3),(DHYD(I),I=1,3),
   X           (FLOFAC(I),I=1,3),(VELFAC(I),I=1,3),(W(I),I=1,3),
   X           (V(I),I=1,3),(RE(I),I=1,3)
    WRITE(6,10)GS(1,1),GDIST(1,1),GS(1,2),GDIST(1,2),
   X           GS(1,3),GDIST(1,3),GS(2,2),GDIST(2,2)
    WRITE(6,11) TWATER,RHOT,VISCT
    IF(ISPLIT.LT.1) GO TO 60
    WRITE(6,12)
    GO TO 70
 60 WRITE(6,13) REXP
 70 CONTINUE
    WRITE(6,14) DELTAP
    GO TO 99
    END
```

```
      SUPRCUTINE GFCMAT
C
C     CALCULATES THE GEOMETRIC CHARACTERISTICS OF HEX ARRAYS
C
      COMMCN /GEOM/ DIATCL,FLOOSE,PINS,RC,DPIN,DWIR,LEAD,X1,X4,RATIO,DF,
     1              ACHAN(3),PHCHAN(3),PWCHAN(3),DHYD(3),WFACT(3),NC(3),
     2              GS(3,3),GDIST(3,3),NCTOT,ATOT,PHTOT,PWTOT,DHYDAV,
     3              CCNST,REXP,DEXP,TWATER,RHOT,VISCT,WTOT,VTOT,RETOT,
     4              W(3),V(3),RE(3),VELFAC(3),FLOFAC(3),DELTAP
      DIMENSION A(3),PH(3),PW(3)
      REAL N,NC,NCTOT,LEAC
      PI=3.14159265
      C=SQRT(3.C)
      APIN=PI*DPIN**2/4.
      AWIR=PI*CWIR**2/4.
      PERIMP=PI*DPIN
      PERIMW=PI*DWIR
      N=(-1.+SQRT(1.+4.*(PINS-1.)/3.))/2.
      IF(FLOOSE.LE.1.) GC TC 110
      RATIO=FLOOSE
      X1=CIATOL
      XX=C*N*(DPIN*(RATIC-1.)-CWIR)
      DIATOL=XX+2.*X1
      FLCOSE=XX/DIATOL
  110 X1=(1.-FLCOSE)*CIATCL/2.
      X2=DPIN/2.+DWIR+X1
      X3=FLOOSE*DIATOL/(C*N)
      X4=CPIN+X3+DWIR
      X5=X4/2.
      RATIO=X4/DPIN
      DF=2.*(C*N*X5+X2)
      ACHAN(1)=X2*X4-APIN/2.-WFACT(1)*AWIR
      PHCHAN(1)=PERIMP/2.
      PWCHAN(1)=PHCHAN(1)+X4+WFACT(1)*PERIMW
      ACHAN(2)=C/4.*X4**2-APIN/2.-WFACT(2)*AWIR
      PHCHAN(2)=PHCHAN(1)
```

```
      PWCHAN(2)=PHCHAN(2)+WFACT(2)*PERIMW
      ACHAN(3)=1./C*(X2**2-RC**2)-(APIN-PI*RC**2)/6.-WFACT(3)*AWIR
      PHCHAN(3)=PHCHAN(1)/3.
      PWCHAN(3)=PHCHAN(3)+2./C*(X2-RC)+PI*RC/3.+WFACT(3)*PERIMW
      DO 120 I=1,3
  120 DHYD(I)=4.*ACHAN(I)/PWCHAN(I)
      NC(3)=6.
      NC(1)=6.*N
      NC(2)=6.*N**2
      GS(1,1)=X1+DWIR
      GS(1,2)=X3+DWIR
      GS(1,3)=GS(1,1)
      GS(2,2)=GS(1,2)
      GS(3,1)=GS(1,1)
      GS(2,1)=GS(1,2)
      GDIST(1,1)=X4
      GDIST(1,2)=(X4*X2**2/2.-DPIN**3/12.)/(X4*X2-APIN/2.)+X5/C
      GDIST(1,3)=X5+PI/12.*(DPIN+DWIR+X1)
      GDIST(2,2)=X4/C
      GDIST(2,1)=GDIST(1,2)
      GDIST(3,1)=GDIST(1,3)
      NCTOT=0.0
      ATOT=0.0
      PHTOT=0.0
      PWTCT=0.0
      DO 130 I=1,3
      A(I)=NC(I)*ACHAN(I)
      PH(I)=NC(I)*PHCHAN(I)
      PW(I)=NC(I)*PWCHAN(I)
      NCTOT=NCTOT+NC(I)
      ATCT=ATOT+A(I)
      PHTCT=PHTCT+PH(I)
  130 PWTOT=PWTOT+PW(I)
      DHYCAV=4.*ATOT/PWTOT
      RETURN
      END
```

```
      SUBROUTINE SPLIT(JSPLIT)
C
C     CALCULATES THE FLCW DISTRIBUTION & PRESSURE DROP IN HEX ARRAYS
C
      COMMON /GEOM/ DIATCL,FLCCSE,PINS,RC,DPIN,DWIR,LEAD,X1,X4,RATIO,DF,
     1              ACHAN(3),PHCHAN(3),PWCHAN(3),DHYD(3),WFACT(3),NC(3),
     2              GS(3,3),GDIST(3,3),NCTOT,ATOT,PHTOT,PWTOT,DHYDAV,
     3              CCNST,REXP,DFXP,TWATER,RHCT,VISCT,WTCT,VTCT,RETOT,
     4              W(3),V(3),RE(3),VELFAC(3),FLOFAC(3),DELTAP
      REAL N,NC,NCTCT,LEAC
      DEXP=(1.+REXP)/(2.-REXP)
      VTOT=WTOT/(RHOT*ATOT)*144./60.
      RETCT=WTCT*DHYCAV/(VISCT*ATOT)*720.
      PDIST=C.C
      DO 210 I=1,3
  210 PDIST=PDIST+NC(I)*ACHAN(I)*CHYD(I)**DEXP
      IF(JSPLIT.LT.1) GC TO 230
      DO 220 I=1,3
  220 FLOFAC(I)=VELFAC(I)*ACHAN(I)/ATOT
      GO TO 250
  230 DO 240 I=1,3
  240 FLOFAC(I)=ACHAN(I)*DHYD(I)**DEXP/PDIST
  250 DO 260 I=1,3
      W(I)=FLOFAC(I)*WTOT
      V(I)=W(I)/(RHOT*ACHAN(I))*144./60.
      RE(I)=W(I)*DHYC(I)/(VISCT*ACHAN(I))*720.
  260 VELFAC(I)=V(I)/VTCT
C
C     CALCULATE EXPECTED PRESSURE DROP USING NCVENDSTERN METHOD
C
      FF=CONST/RE(2)**REXP
      FM=1.034/RATIO**C.124
      IF(LEAC.LT.0.1) GO TO 270
      FM=FM+29.7*RATIC**6.94*RE(2)**0.086/(LEAC/DPIN)**2.239
  270 FM=FM**0.885
      DELTAP=FM*FF*12./DHYD(2)*RHOT*V(2)**2/(2.*32.174*144.)
```

```
RETURN
END
```

Data Cards for CALIB

CARD	SPACES	FORMAT	CODE WORD
1	1-5	I5	NPTS

Number of points in calibration curve - corresponds to number of salt solutions used to calibrate the probes plus background.

1	6-10	I5	NCOEFF

Maximum number of coefficients which can be used to fit calibration curves. The order of the curves is NCOEFF - 1.

1	11-15	I5	NCURVES

Number of calibration curves to be calcultaed

1	16-20	I5	IN

Secondary storage unit number

1	21-25	I5	IPLOT
1	26-30	I5	JPLOT

Calibration curves are plotted for probes IPLOT through JPLOT

1	31-35	I5	NPERT

Controls number of points used in plotting. Use 5 for debugging and 7 for final work.

CARD	SPACES	FORMAT	CODE WORD
2	1-80	I1	IFLAG
3	1-46	I1	IFLAG

Zero (0) for probes which are faulty and one (1) for good probes.

```
C
C     CALIB--A PROGRAM TO GENERATE CALIBRATION CURVES FROM 'NCURVS'
C             DATA SETS EACH OF WHICH HAS THE SAME ORDINATES BUT
C             DIFFERENT ABCISSAS
C
C     EACH DATA SET SHOULD CONSIST OF 'NPTS' POINTS
C     EACH CURVE IS A POLYNOMIAL OF MAXIMUM ORDER (NCOEFF-1)
C     NCOEFF MUST BE LESS THAN OR EQUAL TO NPTS
C     THIS PROGRAM IS DIMENSIONED FOR NPTS<8,NCOEFF<6,NCURVS<126
C     CURVES NUMBERED 'IPLOT' THRU 'JPLOT' WILL BE PLOTTED OFFLINE
C     SEE IBM SSP MANUAL FOR DETAIL ON APCH,APFS, AND CNPS
C
    1 FORMAT(16I5)
    2 FORMAT(//1H ,'THESE ARE COEFFICIENTS OF THE EQUATION FOR PROBE #',
     X      I4,';  XD=',E12.5,';  XO=',E12.5//8X,8E14.5)
    3 FORMAT(//1H ,'X            ',8F12.6)
    4 FORMAT(  1H ,'Y(GIVEN)     ',8F12.6)
    5 FORMAT(  1H ,'Y(CALC.)     ',8F12.6)
    6 FORMAT(  1H ,'ERROR        ',8F12.6)
    7 FORMAT(//1H ,'ERROR IN SUBROUTINE APCH =',I4)
    8 FORMAT(//1H ,'ERROR IN SUBROUTINE APFS =',I4)
    9 FORMAT(1H ,'**CALIBRATION DATA FOLLOWS**' //
     1       1X ,'SALT CONCENTRATIONS:', 8F10.5 )
   10 FORMAT(1H ,' (G-SALT/LBM-WATER) '           //
     1       1X ,'SIGNAL RESPONSES (RAW DATA OVER NORMALIZED DATA):'/)
   11 FORMAT(1H ,'         PROBE #',I4,':',8F10.3)
   12 FORMAT(1H ,19X,8F10.3)
   13 FORMAT(2I16,F16.3,2E16.6/6E12.5)
   14 FORMAT(54H **GENERATE NEW CALIBRATION CURVES VIA PROGRAM CALIB**//
     1        1X,'NUMBER OF DATA POINTS TO FIT=',I4/
     2        1X,'NUMBER OF COEFFICIENTS IN CURVE FIT=',I4,'(MAX)'/
     3        1X,'NUMBER OF CURVES TO BE FIT=',I4//
     4        1X,'CALIBRATION DATA READ IN FROM UNIT',I3//)
   15 FORMAT(F6.4)
   16 FORMAT(8(3X,F3.3,3X))
   17 FORMAT(20A4)
```

```
   18 FORMAT(/1H ,'**CALIBRATION CURVE FOR PROBE#',I4,' HAS BEEN PLOTTED
     X OFFLINE***')
   19 FORMAT(80I1)
   20 FORMAT(//1H ,'**NO CALIBRATION CURVE GENERATED FOR PROBE #',I4,
     X     '  BECAUSE FLAG =',I2/)
C
      DIMENSION CCOEFF(8,126),XDJ(126),XOJ(126),IREZ(126),BAKCAL(126)
      DIMENSION Y(8),YC(8),YER(8),X(8,126),COEFF(8),IFLAG(126)
      DIMENSION DATI(17),WORK(45)
      DIMENSION XPLOT(51),YPLOT(50),XI(8)
      EPS=1.0E-5
      ETA=5.0E-4
C
C     READ, SUBTRACT BACKGROUND SIGNAL, AND PRINT CALIBRATION DATA
C
      READ(5,1) NPTS,NCOEFF,NCURVS,IN,IPLOT,JPLOT,NPERPT
      WRITE(6,14) NPTS,NCOEFF,NCURVS,IN
      READ(5,19) (IFLAG(J),J=1,NCURVS)
      DO 310 I=1,NPTS
      READ(IN,15) Y(I)
      READ(IN,16) (X(I,J),J=1,NCURVS)
  310 CONTINUE
      WRITE(6,9)  (Y(I),I=1,NPTS)
      WRITE(6,10)
      DO 312 J=1,NCURVS
      WRITE(6,11) J,(X(I,J),I=1,NPTS)
      BAKCAL(J)=X(1,J)
      DO 311 I=1,NPTS
  311 X(I,J)=BAKCAL(J)-X(I,J)
      WRITE(6,12) (X(I,J),I=1,NPTS)
  312 CONTINUE
C
C     GENERATE NCURVS CALIBRATION CURVES FROM THE GIVEN DATA
C
      DO 360 J=1,NCURVS
      IF(IFLAG(J).GT.0) GO TO 359
```

```
      DO 320 I=1,NPTS
      DATI(I)=X(I,J)
  320 DATI(I+NPTS)=Y(I)
      DATI(2*NPTS+1)=-1.0
      CALL APCH(DATI,NPTS,NCOEFF,XD,XO,WORK,IER)
      IF(IER.NE.0) WRITE(6,7) IER
      IER=0
      XDJ(J)=XD
      XOJ(J)=XO
      CALL APFS(WORK,NCOEFF,IRES,-1,EPS,ETA,IER)
      IF(IER.NE.0) WRITE(6,8) IER
      IER=0
      IREZ(J)=IRES
      IPLACE=(IRES-1)*IRES/2
      DO 330 I=1,IRES
  330 COEFF(I)=WORK(IPLACE+I)
C
C     CHECK TO SEE HOW WELL THE CURVES FIT THE GIVEN DATA
C
      DO 340 L=1,NPTS
      XX=X(L,J)*XDJ(J)+XOJ(J)
      CALL CNPS(YY,XX,COEFF,IRES)
      YC(L)=YY
      YER(L)=Y(L)-YC(L)
  340 CONTINUE
      WRITE(6,2) J,XDJ(J),XOJ(J),(COEFF(I),I=1,IRES)
      WRITE(6,3) (X(I,J),I=1,NPTS)
      WRITE(6,4)   (Y(I),I=1,NPTS)
      WRITE(6,5)  (YC(I),I=1,NPTS)
      WRITE(6,6) (YER(I),I=1,NPTS)
      DO 350 I=1,IRES
  350 CCOEF(I,J)=COEFF(I)
      GO TO 360
  359 WRITE(6,20) J,IFLAG(J)
  360 CONTINUE
C
```

```
C      PLOT THE CALIBRATION CURVES FOR PROBES 'IPLOT' THRU 'JPLOT'
C
       IF(IPLOT.LT.1) STOP
       CALL PLOTS(ID,ID,63)
       CALL PLOT (0.0,2.0,-3)
       NX=(NPTS-1)*NPERPT+1
       DO 390 KPLOT=IPLOT,JPLOT
       IF(IFLAG(KPLOT).GT.0) GO TO 389
       DO 371 I=1,NPTS
  371  XI(I)=X(I,KPLOT)
       DELTAX=(XI(NPTS)-XI(1))/(NX-1)
       IRES=IREZ(KPLOT)
       DO 372 I=1,IRES
  372  COEFF(I)=CCOEFF(I,KPLOT)
       XPLOT(1)=XI(1)
       DO 380 I=1,NX
       XX=XPLOT(I)*XDJ(KPLOT)+XOJ(KPLOT)
       CALL CNPS(YY,XX,COEFF,IRES)
       YPLOT(I)=YY
  380  XPLOT(I+1)=XPLOT(I)+DELTAX
       CALL PICTUR(7.0,5.0,'SIGNAL',6,'SALT',4,
      X     XI,Y,+NPTS,.1,0,XPLOT,YPLOT,NX,0.,0)
       WRITE(6,18) KPLOT
       GO TO 390
  389  WRITE(6,20) KPLOT,IFLAG(KPLOT)
  390  CONTINUE
       CALL ENDPLT(1.0,0.0,999)
       STOP
       END
```

Data Cards For Data Reduction Program

CARD	SPACES	FORMAT	CODE WORD
1	1-5	I5	NPTS
Number of points in calibration curve			
1	6-10	I5	NCOEFF
Maximum number of coefficients which can be used to fit calibration curve.			
1	11-15	I5	NCURVES
Number of calibration curves to be calculated			
1	16-20	I5	IN
Secondary Storage unit number			
1	21-25	I5	IPLOT
I	26-30	I5	JPLOT
Calibration curves are plotted for probes IPLOT through JPLOT.			
1	31-35	I5	NPERT
Controls number of points used plotting			

1 36-40 I5 ICALIB

Controls whether calibration data is read in from secondary storage or calculated as part of the program. ICALIB = 0 for secondary storage ICALIB = 1 if calculated in program

2 1-80 I1 IFLAG

3 1-46 I1 IFLAG

0 for good probes and 1 for faulty probes

4 1-10 F10.1 CINJ

Injection concentration in gm/lb of water

4 11-20 F10.1 WINJ

Injection flow rate in lb/min

4 21-30 F10.1 WTOT

Total flow rate in lb/min

4 31-60 3F10.6 FLOFAC(I)

Flow factors from output of GEOSPLIT in order of edge, center and corner subchannels

5 1-5 I5 IO

Secondary storage unit number

5	6-10	I5	IEDGE1
5	11-15	I5	IEDGE2

Beginning and ending numbers of edge probes

5	16-20	I5	INJ

Injection subchannel number

5	21-25	I5	NEDGE1
5	26-30	I5	NEDGE2

For edge injection only, the beginning and ending edge probes to be plotted to a max. of 15. Zero for no plots.

5	31-35	I5	NCHAN

Total plots to be made in multiples of four up to 24. One for no plots.

6	1-5	I5	ICNER1
6	6-10	I5	ICNER2

Beginning and ending numbers of corner probes

7	1-80	8F10.4	AXPLOT(I)

Axial position of printout of planar salt distribution and plots of circumferential salt distribution. Card must be blank, have 4 or 8 positions.

8	1-80	16I5	ICHAN(I)

Numbers in groups of 4 of subchannels to be plotted in addition to edge subchannels plotted for edge injection.

```
C
C     THIS PROGRAM DOES THE DATA REDUCTION FOR SALT TRACER EXPERIMENTS
C
    2 FORMAT(16I5)
   31 FORMAT(//1H ,'**EDGE CHANNELS ARE NUMBERED',I4,' THRU',I4//
     1     1X,'**INJECTION CHANNEL IS NUMBER',I4//)
   32 FORMAT( 1H ,'**INJECTION PARAMETERS ARE:'/
     1      6X,'INJECTION FLOWRATE =',F8.5,' LBM/MIN'/
     2      6X,'INJECTION CONCENTRATION =', F8.3,' G-SALT/LBM-SOLUTION'/
     3      6X,'BUNDLE AVERAGE SALT CONCENTRATION =',F8.4,
     4         ' G-SALT/LBM-WATER'//)
   33 FORMAT(20A4/)
   34 FORMAT(8(3X,F3.3,3X))
   35 FORMAT(/1H ,'**EXPERIMENTAL DATA READ IN FROM UNIT',I3//
     1      1X,'**BACKGROUND SIGNALS FOR DATA ARE:'/15(23X,8F11.3/)//
     2      1X,'**EXPERIMENTAL DATA FOLLOWS (RAW DATA OVER NORMALIZED DAT
     3A):')
   36 FORMAT(F5.2,I5)
   37 FORMAT(/1H ,3X,'AXIAL POSITION #',I3,', AXIAL LOCATION =',F6.2,
     1      ' INCHES, ROWS MONITORED =',I3/)
   38 FORMAT(1H ,'PROBES',I4,' THRU',I4,3X,8F11.3)
   39 FORMAT(1H ,22X,8F11.3)
   40 FORMAT(/1H ,3X,'AXIAL POSITION #',I3,', AXIAL LOCATION =',F6.2,
     1      ' INCHES, SALT OBSERVED =',F6.4,' G-SALT/LBM-WATER, SALT MISS
     2ED =',F6.4,' G-SALT/LBM-WATER'/)
   41 FORMAT(1H ,'PROBES',I4,' THRU',I4,3X,8F11.4)
   42 FORMAT(////1H ,'**SALT CONCENTRATIONS FOLLOW:')
   43 FORMAT(///1H ,'**THE FOLLOWING PROBES HAVE FAILED AND WERE NOT'/
     X          3X,'INCLUDED IN THE MASS BALANCE CALCULATIONS:'/)
   44 FORMAT(1H ,I24)
   45 FORMAT(I10,F10.2,I10,F10.4)
   46 FORMAT(8F10.4)
   70 FORMAT(80I1)
   71 FORMAT(2I16,F16.3,2E16.6)
   72 FORMAT(6E12.5)
   73 FORMAT(43H **OLD CALIBRATION CURVES READ IN FROM UNIT,I3,'**')
```

```
   99 FORMAT(3F10.1,3F10.6)
C
      COMMON /FAIL/ IFLAG(126)
      COMMON /CAL/ CCOEFF(6,126),XDJ(126),XOJ(126),IREZ(126),BAKCAL(126)
      COMMON SALT(126,50),AXLOC(50),SUMSAL(50),IAXIAL(8),ICHAN(24)
      DIMENSION COEFF(6),ITYPE(126),BAKGND(126),FLOFAC(3)
      DIMENSION SIGNAL(126,50),NROWS(50),YPLOT(50),AXPLOT(8),ZERO(50)
      EQUIVALENCE (SIGNAL(1,1),SALT(1,1))
      CALL ERASE(SALT,6000,ZERO,50)
      CALL PLOTS(ID,ID,63)
      CALL PLOT (0.0,2.0,-3)
C
C     READ-IN OR COMPUTE CALIBRATION CURVES
C
      READ(5,2) NPTS,NCOEFF,NCURVS,IN,IPLOT,JPLOT,NPERPT,ICALIB
      READ(5,70) (IFLAG(J),J=1,NCURVS)
      IF(ICALIB.GT.0) GO TO 78
      DO 77 L=1,NCURVS
      IF(IFLAG(L).GT.0) GO TO 77
      READ(IN,71) J,IREZ(J),BAKCAL(J),XDJ(J),XOJ(J)
      IRES=IREZ(J)
      READ(IN,72) (CCOEF(I,J),I=1,IRES)
   77 CONTINUE
      WRITE(6,73) IN
      GO TO 79
   78 CALL CALIB(NPTS,NCOEFF,NCURVS,IN,IPLOT,JPLOT,NPERPT)
   79 CONTINUE
C
      READ(5,99) CINJ,WINJ,WTOT,(FLOFAC(I),I=1,3)
      SALTIN=CINJ*WINJ/WTOT
      READ(5,2) IO,IEDGE1,IEDGE2,INJ,NEDGE1,NEDGE2,NCHAN
      READ(5,2) ICNER1, ICNER2
      READ(5,46) (AXPLOT(I),I=1,8)
      READ(5,2) (ICHAN(I),I=1,NCHAN)
      DO 80 I=1,NCURVS
      ITYPE(I)=2
```

```
      IF(I.GE.IEDGE1.ANC.I.LE.IEDGE2) ITYPE(I)=1
      IF (I.GE.ICNER1.ANC.I.LE.ICNER2) ITYPE(I)=3
   8C CONTINLE
      WRITE(6,31) IEDGE1,IEDGE?,INJ
      WRITE(6,32) WINJ,CINJ,SALTIN
C
C     READ, SURTRACT BACKGRCUND SIGNALS, ANC PRINT THE DATA
C
      REAC(IC,33)
      READ(IC,33)
      REAC(IO,34) (BAKGNC(J),J=1,NCURVS)
      WRITE(6,35) IO, (BAKGNC(J),J=1,NCURVS)
      NAXLCC=5C
      DO 310 L=1,50
      REAC(IC,36) AXLCC(L),NROWS(L)
      IF (AXLCC(L).LT.1.) GC TC 320
      DO 305 I=1,8
  305 IF(AXLCC(L).EQ.AXPLOT(I)) IAXIAL(I)=L
      WRITE(6,37) L,AXLCC(L),NROWS(L)
      JSTART=1
      NREAD=NROWS(L)
      DO 309 I=1,NREAC
      JEND=JSTART+7
      IF(I.GE.16) JEND=JSTART+5
      REAC(IO,34) (SIGNAL(J,L),J=JSTART,JEND)
      WRITE(6,38) JSTART,JENC,(SIGNAL(J,L),J=JSTART,JEND)
      DO 308 J=JSTART,JEND
  308 SIGNAL(J,L)=BAKGND(J)-SIGNAL(J,L)
      WRITE(6,39) (SIGNAL(J,L),J=JSTART,JEND)
  309 JSTART=JEND+1
  310 CONTINUE
      GO TC 330
  320 NAXLOC=L-1
C
C     CONVERT SIGNAL TO SALT CONCENTRATION AND MAKE MASS BALANCE
C
```

```
  330 WRITE(6,42)
      DO 349 L=1,NAXLOC
      SUMSAL(L)=0.0
      NPROBS=8*NROWS(L)
      IF(NROWS(L).GE.16) NPROBS=126
      DO 345 J=1,NPROBS
      IF(IFLAG(J).GT.0) GO TO 342
      XX=SIGNAL(J,L)*XDJ(J)+XOJ(J)
      IRES=IREZ(J)
      DO 341 I=1,IRES
  341 COEFF(I)=COOEF(I,J)
      CALL CNPS(YY,XX,COEFF,IRES)
      SALT(J,L)=YY
      GO TO 345
  342 SALT(J,L)=0.0
  345 SUMSAL(L)=SUMSAL(L)+FLOFAC(ITYPE(J))*SALT(J,L)
  347 DELTA=SALTIN-SUMSAL(L)
      WRITE(6,40) L,AXLOC(L),SUMSAL(L),DELTA
      JSTART=1
      NWRITE=NROWS(L)
      DO 348 I=1,NWRITE
      JEND=JSTART+7
      IF(I.GE.16) JEND=JSTART+5
      WRITE(6,41) JSTART,JEND,(SALT(J,L),J=JSTART,JEND)
  348 JSTART=JEND+1
  349 CONTINUE
      WRITE(6,43)
      DO 351 I=1,NCURVS
  351 IF(IFLAG(I).GT.0) WRITE(6,44) I
C
C     PLOT MASS BALANCE VS. AXIAL LOCATION
C     PLOT INJECTION CHANNEL CONCENTRATION VS. AXIAL LOCATION
C
      DO 391 I=1,NAXLOC
  391 YPLOT(I)=SALTIN
      CALL PICTUR(7.0,5.0,'AXIAL LOCATION (IN.)',20,
```

```
   X     'AVERAGE CCNCENTRATION (G/LBM)',29,AXLOC,ZERO,+NAXLOC,C.,0,
   X     AXLOC,SUMSAL,+NAXLCC,C.,0,AXLCC,YPLCT,+NAXLOC,0.,0)
    DO 392 I=1,NAXLOC
392 YPLCT(I)=SALT(INJ,I)
    CALL PICTUR(7.0,5.C,'AXIAL LOCATICN (IN.)',20,
   X     'SALT CONCENTRATICN (G/LBM)',26,AXLCC,YPLOT,+NAXLCC,0.,0)
    IF(IAXIAL(1).LE.1.AND.NCHAN.LE.1) GO TO 399
    CALL SALPLT(IEDCE1,IEDGE2,INJ,NAXLOC,NEDGE1,NEDGE2,NCHAN)
399 CALL ENDPLT(1.C,C.C,999)
    STCP
    END
```

```
      SUBROUTINE CALIB(NPTS,NCOEFF,NCURVS,IN,IPLOT,JPLOT,NPERPT)
C
C     THIS SUBROUTINE FITS CURVES THRU 'NCURVS' SETS OF DATA
C     EACH DATA SET SHOULD CONSIST OF 'NPTS' POINTS
C     EACH CURVE IS A POLYNOMIAL OF MAXIMUM ORDER (NCOEFF-1)
C     NCOEFF MUST BE LESS THAN OR EQUAL TO NPTS
C     THIS PROGRAM IS DIMENSIONED FOR NPTS<8,NCOEFF<6,NCURVS<126
C     CURVES NUMBERED 'IPLOT' THRU 'JPLOT' WILL BE PLOTTED OFFLINE
C     SEE IBM SSP MANUAL FOR DETAIL ON APCH, APFS, AND CNPS
C
    1 FORMAT(20A4)
    2 FORMAT(//1H ,'THESE ARE COEFFICIENTS OF THE EQUATION FOR PROBE #',
     X     I4,';  XD=',E12.5,';  XO=',E12.5//8X,8E14.5)
    3 FORMAT(//1H ,'X           ',8F12.6)
    4 FORMAT(  1H ,'Y(GIVEN)    ',8F12.6)
    5 FORMAT(  1H ,'Y(CALC.)    ',8F12.6)
    6 FORMAT(  1H ,'ERROR       ',8F12.6)
    7 FORMAT(//1H ,'ERROR IN SUBROUTINE APCH =',I4)
    8 FORMAT(//1H ,'ERROR IN SUBROUTINE APFS =',I4)
    9 FORMAT(1H ,'**CALIBRATION DATA FOLLOWS**' //
     1       1X ,'SALT CONCENTRATIONS:', 8F10.5 )
   10 FORMAT(1H ,' (G-SALT/LBM-WATER) '         //
     1       1X ,'SIGNAL RESPONSES (RAW DATA OVER NORMALIZED DATA):'/)
   11 FORMAT(1H ,'        PROBE #',I4,':',8F10.3)
   12 FORMAT(1H ,19X,8F10.3)
   13 FORMAT(2I16,F16.3,2E16.6/5E16.6)
   14 FORMAT(54H **GENERATE NEW CALIBRATION CURVES VIA PROGRAM CALIB**//
     1        1X,'NUMBER OF DATA POINTS TO FIT=',I4/
     2        1X,'NUMBER OF COEFFICIENTS IN CURVE FIT=',I4,'(MAX)'/
     3        1X,'NUMBER OF CURVES TO BE FIT=',I4//
     4        1X,'CALIBRATION DATA READ IN FROM UNIT',I3//)
   15 FORMAT(F6.4)
   16 FORMAT(8(3X,F3.3,3X))
   17 FORMAT(/1H ,'**CALIBRATION CURVE FOR PROBE#',I4,' HAS BEEN PLOTTED
     X OFFLINE***')
   18 FORMAT(//1H ,'**NO CALIBRATION CURVE GENERATED FOR PROBE #',I4,
```

```
     X       '   BECAUSE FLAG =',I2/)
C
      COMMON /FAIL/ IFLAG(126)
      COMMON /CAL/ CCOEF(6,126),XDJ(126),XOJ(126),IREZ(126),BAKCAL(126)
      DIMENSION Y(8),YC(8),YER(8),X(8,126),COEFF(6)
      DIMENSION DATI(17),WORK(45)
      DIMENSION XPLOT(51),YPLOT(50),XI(8)
      EPS=1.0E-5
      ETA=5.0E-4
C
C     READ, SUBTRACT BACKGROUND SIGNAL, AND PRINT CALIBRATION DATA
C
      WRITE(6,14) NPTS,NCOEFF,NCURVS,IN
      READ(IN,1)
      DO 310 I=1,NPTS
      READ(IN,15) Y(I)
      READ(IN,16)  (X(I,J),J=1,NCURVS)
  310 CONTINUE
      WRITE(6,9)   (Y(I),I=1,NPTS)
      WRITE(6,10)
      DO 312 J=1,NCURVS
      WRITE(6,11) J,(X(I,J),I=1,NPTS)
      BAKCAL(J)=X(1,J)
      DO 311 I=1,NPTS
  311 X(I,J)=BAKCAL(J)-X(I,J)
      WRITE(6,12)  (X(I,J),I=1,NPTS)
  312 CONTINUE
C
C     GENERATE NCURVS CALIBRATION CURVES FROM THE GIVEN DATA
C
      DO 360 J=1,NCURVS
      IF(IFLAG(J).GT.0) GO TO 359
      DO 320 I=1,NPTS
      DATI(I)=X(I,J)
  320 DATI(I+NPTS)=Y(I)
      DATI(2*NPTS+1)=-1.0
```

```
      CALL APCH(DATI,NPTS,NCOEFF,XD,XO,WORK,IER)
      IF(IER.NE.0) WRITE(6,7) IER
      IER=0
      XDJ(J)=XD
      XOJ(J)=XO
      CALL APFS(WORK,NCOEFF,IRES,-1,EPS,ETA,IER)
      IF(IER.NE.0) WRITE(6,8) IER
      IER=0
      IREZ(J)=IRES
      IPLACE=(IRES-1)*IRES/2
      DO 330 I=1,IRES
  330 COEFF(I)=WORK(IPLACE+I)
C
C     CHECK TO SEE HOW WELL THE CURVES FIT THE GIVEN DATA
C
      DO 340 L=1,NPTS
      XX=X(L,J)*XDJ(J)+XOJ(J)
      CALL CNPS(YY,XX,COEFF,IRES)
      YC(L)=YY
      YER(L)=Y(L)-YC(L)
  340 CONTINUE
      WRITE(6,2)  J,XDJ(J),XOJ(J),(COEFF(I),I=1,IRES)
      WRITE(6,3)  (X(I,J),I=1,NPTS)
      WRITE(6,4)     (Y(I),I=1,NPTS)
      WRITE(6,5)    (YC(I),I=1,NPTS)
      WRITE(6,6)  (YER(I),I=1,NPTS)
      DO 350 I=1,IRES
  350 CCOEF(I,J)=COEFF(I)
      WRITE(7,13)J,IREZ(J),BAKCAL(J),XDJ(J),XOJ(J),(CCOEF(I,J),I=1,IRES)
      GO TO 360
  359 WRITE(6,18) J,IFLAG(J)
  360 CONTINUE
C
C     PLOT THE CALIBRATION CURVES FOR PROBES 'IPLOT' THRU 'JPLOT'
C
      IF(IPLOT.LT.1) RETURN
```

```
      NX=(NPTS-1)*NPERPT+1
      DO 390  KPLOT=IPLOT,JPLOT
      IF(IFLAG(KPLOT).GT.0)  GO  TO  389
      DO 371 I=1,NPTS
  371 XI(I)=X(I,KPLOT)
      DELTAX=(XI(NPTS)-XI(1))/(NX-1)
      IRES=IREZ(KPLOT)
      DO 372 I=1,IRES
  372 COEFF(I)=CCOEFF(I,KPLOT)
      XPLOT(1)=XI(1)
      DO 380 I=1,NX
      XX=XPLOT(I)*XDJ(KPLOT)+XOJ(KPLOT)
      CALL CNPS(YY,XX,COEFF,IRES)
      YPLOT(I)=YY
  380 XPLOT(I+1)=XPLOT(I)+DELTAX
      CALL PICTUR(7.0,5.0,'SIGNAL',6,'SALT',4,
     X       XI,Y,+NPTS,.1,0,XPLOT,YPLOT,NX,0.,0)
      WRITE(6,17) KPLOT
      GO TO 390
  389 WRITE(6,18) KPLOT,IFLAG(KPLOT)
  390 CONTINUE
      RETURN
      END
```

```
      SUBROUTINE SALPLT(IEDGE1,IEDGE2,INJ,NAXLOC,NEDGE1,NEDGE2,NCHAN)
C
C     THIS SUBROUTINE WILL PRODUCE CALCOMP PLOTS OF THE CIRCUMFERENTIAL
C              AND AXIAL SALT TRACER EXPERIMENTAL DATA.
C     IT WILL PRODUCE UP TO 2 PLOTS OF CIRCUMFERENTIAL DATA, EACH PLOT
C     CONTAINING 4 AXIAL LOCATIONS.
C     IT WILL PRODUCE UP TO 6 PLOTS OF AXIAL DATA, EACH PLOT
C     CONTAINING 4 SUBCHANNELS.
C     IT WILL ALSO PRODUCE UP TO 8 ONLINE PLOTS OF PLANAR SALT
C     DISTRIBUTIONS AT THE POSITIONS SPECIFIED AS IAXIAL.
C
    1 FORMAT(///1H ,'**CIRCUMFERENTIAL CONCENTRATION PROFILES PLOTTED AT
     X THE FOLLOWING AXIAL POSITIONS:')
    2 FORMAT(///1H ,'**AXIAL CONCENTRATION PROFILES PLOTTED FOR THE FOLL
     XOWING SUBCHANNELS:')
    3 FORMAT(1H ,4I12)
    8 FORMAT(1H1,'AXIAL POSITION #',I3/
     1       1X,'AXIAL LOCATION =',F6.2,' INCHES'/
     2       1X,'AVERAGE SALT CONCENTRATION =',F6.4,' G-SALT/LBM-WATER'//
     3       1X,'SUBCHANNEL SALT CONCENTRATIONS IN MG-SALT/LBM-WATER:'//)
   11 FORMAT(1H ,15X,6I6/)
   12 FORMAT(1H ,12X,6I6/1H ,15X,5I6/)
   13 FORMAT(1H , 9X,7I6/1H ,12X,6I6/)
   14 FORMAT(1H , 6X,8I6/1H , 9X,7I6/)
   15 FORMAT(1H , 3X,9I6/1H , 6X,8I6/)
   16 FORMAT(1H ,    I6,42X,I6/)
   17 FORMAT(1H , 6X,8I6/1H , 3X,9I6/)
   18 FORMAT(1H , 9X,7I6/1H , 6X,8I6/)
   19 FORMAT(1H ,12X,6I6/1H , 9X,7I6/)
   20 FORMAT(1H ,15X,5I6/1H ,12X,6I6/)
C
      COMMON SALT(126,50),AXLOC(50),SUMSAL(50),IAXIAL(8),ICHAN(24)
      DIMENSION YPLOT1(50),YPLOT2(50),YPLOT3(50),YPLOT4(50),XPLOT(50)
      DIMENSION M(126)
      JJ=2
      IF(INJ.GE.IEDGE1.AND.INJ.LE.IEDGE2) JJ=1
```

```
      GC TO (1CC,200),JJ
C
C     PLOT CIRCUMFFRENTIAL PRCFILES IF JJ=1
C
  100 IF(IAXIAL(1).LE.1) GO TC 200
      JEND=1
      IF(IAXIAL(JJ+4).GT.1) JEND=2
      NEDGE=NEDGE1
      WPITE(6,1)
      DO 180 J=1,JEND
      IF(J.GT.1) NEDGE=NEDGE2
      DO 110 I=IEDGE1,IEDGE2
      XPLOT(I)=I
      YPLOT1(I)=SALT(I,IAXIAL(JJ))
      YPLOT2(I)=SALT(I,IAXIAL(JJ+1))
      YPLOT3(I)=SALT(I,IAXIAL(JJ+2))
  110 YPLOT4(I)=SALT(I,IAXIAL(JJ+3))
      CALL PICTUR(7.0,5.0,'CHANNEL NUMBER',14,
     1    'SALT CONCENTRATICN (G/LBM)',26,
     2    XPLOT,YPLOT1,+NEDGE,.1,0,XPLOT,YPLOT2,+NEDGE,.1,1,
     3    XPLOT,YPLOT3,+NEDGE,.1,2,XPLOT,YPLOT4,+NEDGE,.1,5)
      JJ3=JJ+3
      WRITE(6,3) (IAXIAL(I),I=JJ,JJ3)
  180 JJ=JJ+4
C
C     PLOT AXIAL DETAIL DATA IF NPLOTS > 0
C
  200 NPLOTS=NCHAN/4
      IF(NPLOTS.LE.0) GO TO 300
      JJ=1
      WRITE(6,2)
      DC 280 J=1,NPLOTS
      DO 210 I=1,NAXLOC
      YPLOT1(I)=SALT(ICHAN(JJ),I)
      YPLOT2(I)=SALT(ICHAN(JJ+1),I)
      YPLOT3(I)=SALT(ICHAN(JJ+2),I)
```

```
  210 YPLOT4(I)=SALT(ICHAN(JJ+3),I)
      CALL PICTUP(7.0,5.0,'AXIAL LOCATION  (IN.)',20,
     1     'SALT CONCENTRATION  (G/LBM)',26,
     2     AXLOC,YPLOT1,+NAXLOC,0.,0,AXLOC,YPLOT2,+NAXLOC,0.,0,
     3     AXLOC,YPLOT3,+NAXLOC,0.,0,AXLOC,YPLOT4,+NAXLOC,0.,0)
      JJ3=JJ+3
      WRITE(6,3)  (ICHAN(I),I=JJ,JJ3)
  280 JJ=JJ+4
C
C     PLOT PLANAR SALT DISTRIBUTIONS ONLINE AT THE IAXIAL POSITIONS
C
  300 DO 390 L=1,8
      IF(IAXIAL(L).LE.1) GO TO 399
      DO 310 J=1,120
  310 M(J)=IFIX(1000.*SALT(J,IAXIAL(L)))
      WRITE(6,8)  IAXIAL(L),AXLOC(IAXIAL(L)),SUMSAL(IAXIAL(L))
      WRITE(6,11)         M(123),M(104),M(103),M(102),M(101),M(122)
      WRITE(6,12)       M(105),M(47),M(45),M(21),M(23),M(100),
     X                            M(48), M(46), M(44), M(22), M(24)
      WRITE(6,13)  M(106),M(42),M(40),M(38),M(17),M(19),M(99),
     X             M(43),M(41),M(39),M(16),M(18),M(20)
      WRITE(6,14)  M(107),M(36),M(34),M(32),M(10),M(12),M(14),M(98),
     X             M(37),M(35),M(33),M(9),M(11),M(13),M(15)
      WRITE(6,15)  M(108),M(30),M(28),M(26),M(1),M(3),M(5),M(7),M(97),
     X           M(31),M(29),M(27),M(25),M(2),M(4),M(6),M(8)
      WRITE(6,16)  M(124), M(121)
      WRITE(6,17)  M(56),M(54),M(52),M(50),M(73),M(75),M(77),M(79),
     X           M(109),M(55),M(53),M(51),M(49),M(74),M(76),M(78),M(120)
      WRITE(6,18)   M(63),M(61),M(59),M(57),M(81),M(83),M(85),
     X             M(110),M(62),M(60),M(58),M(80),M(82),M(84),M(119)
      WRITE(6,19)       M(68),M(66),M(64),M(87),M(89),M(91),
     X         M(111),M(67),M(65),M(86),M(88),M(90),M(118)
      WRITE (6,20)        M(72),M(70),M(92),M(94),M(96),
     X               M(112),M(71),M(69),M(93),M(95),M(117)
      WRITE(6,11)            M(125),M(113),M(114),M(115),M(116),M(126)
  390 CONTINUE
```

```
399 RETURN
    END
```

Appendix 4

FRICTION FACTOR CALCULATIONS

A4.1. Wall Pressure Drop Data

The approach in calculating friction factors from the wall pressure drop data (tables A4-3 and A4-4) is to average the pressure over the six wall pressure taps at each axial level. The difference between the respective average pressures (table A4-5) yields a friction factor as described below. There is one tap at each level that sees the same wire wrap orientation so that averaging cancels any dynamic effects[21]. Static pressure differences are canceled by placing all the gauges at the same height.

$$\Delta\overline{P} = f \frac{L}{De} \frac{\rho\overline{V}^2}{2g_o} \qquad \text{(A4-1)}$$

$$W = \rho V A_{FT} = 499.74 \text{ G (gpm)} \qquad \text{(A4-2)}$$

therefore:

$$\overline{V} = \frac{499.74 \text{ G}}{3600\rho A_{FT}} \qquad \text{(A4-3)}$$

$$\overline{V} = 0.088 \text{ G} \qquad \text{(A4-4)}$$

since:

$$f = \frac{2\Delta\overline{P} De g_o}{L\rho\overline{V}^2} \qquad \text{(A4-5)}$$

therefore:

$$f = \frac{79.37\Delta\overline{P}}{G^2}\,\Delta P(\mathrm{psi}) \qquad \text{A4-6)}$$

and

$$f = \frac{2.873\Delta\overline{P}}{G^2}\,\Delta P(\mathrm{in.}\ H_2O) \qquad \text{(A4-7)}$$

A4.2. Injector Rod Pressure Drop Data

The approach in calculating friction factors from the injector rod pressure drop data (tables A4-1 and A4-2) is to measure the slope of the plots of pressure difference relative to pressure tap one at the 42 inch tap level against distance from the bundle exit. The slopes yield a friction factor as shown below. Dynamic effects are neglected since local velocities are indeterminable. For this analysis, the slope of the dashed lines shown in the figures is used.

The slope of the dashed lines is

$$f\,\frac{\rho\overline{V}^2}{De2g_o} \qquad \text{(A4-8)}$$

(see equation A4-1)

Therefore dividing the slope by $\frac{\rho\overline{V}^2}{De2g_o}$ yields f.

$$\frac{\rho\overline{V}^2}{2Deg_o} = 1.1602 \times 10^{-2}G^2 \qquad \text{(A4-9)}$$

A4.3. Novendstern's Friction Factor [15]

$$f = M \frac{0.316}{Re^{0.25}}$$

where:

$$M = \left\{\frac{1.034}{(P/D_p)^{0.124}} + \frac{29.7(P/D_p)^{6.94} \ Re^{0.086}}{(h/D_p)^{2.239}}\right\}^{0.885}$$

$$M = \left\{\frac{1.034}{(.534/.502)^{0.124}} + \frac{29.7(.534/.502)^{6.94} \ Re^{0.086}}{(4/.502)^{2.239}}\right\}^{0.885}$$

$$M = \left\{1.027 + 0.4373 \ Re^{0.086}\right\}^{0.885}$$

or,

$$M = \left\{1.027 + 0.623 \ G^{0.086}\right\}^{0.885}$$

A4.4. Rehme's Friction Factor [22]

$$f' = \frac{64}{Re'} + \frac{0.0816}{Re'^{0.133}}$$

where $Re' = Re \sqrt{F}$

where $F = (\frac{P}{D_p})^{0.5} + \left\{7.6 \ \frac{D_s}{h} \ (\frac{P}{D_p})^2\right\}^{2.16}$

$$F = \left(\frac{.534}{.502}\right)^{0.5} + \left\{7.6\left(\frac{.032}{4}\right)\left(\frac{.534}{D_p}\right)^2\right\}^{2.16}$$

$$F = 1.0166$$

A4.5. Blasius' Friction Factor

$$f = \frac{0.316}{Re^{0.25}}$$

Table A4-1

Pressure Drop Readings

EDGE INJECTOR

Flow Rate (gpm)	25		40		60	
Position (in.down from exit)	P_{abs} psi	P_{dif} in.H_2O	P_{abs} psi	P_{dif} in.H_2O	P_{abs} psi	P_{dif} in.H_2O
12	1.5	21.2	1.8	43.4	2.45	77
18	1.6	18.	2.1	32	3.12	61
18.5			2.18	31		
19			2.19	30.8		
19.5			2.18	30.5		
20			2.01	32.2	3.4	52
20.5			2.18	30.8		
21			2.02	32		
21.5			2.28	28		
22			2.3	26.7	3.4	52
22.5			2.3	27		
23			2.32	26.5		
23.5			2.35	26.5		
24	1.78	13.3	2.32	26.5	3.48	50
25			2.4	24.8		
26			2.48	23.5	3.79	42
27			2.52	21.6		
28			2.52	25.5	3.8	38
29			2.4	23.2	3.72	41
30	1.9	9.8	2.48	21.3	3.93	33
36	2.08	6.1	2.78	8.8	4.71	20
42	2.29	1.4	3.2	1.2	5.25	1.5
Reference	2.6		3.6		5.6	

Table A4-1 Continued

Flow Rate (gpm)	80		100		125	
Position (in. down from exit)	P_{abs} psi	P_{dif} in.H_2O	P_{abs} psi	P_{dif} in.H_2O	P_{abs} psi	P_{dif} in.H_2O
12	3.05	121	3.82	186	5	
13			4.22	177		
14			4.25	176		
15			4.65	165		
16			4.75	163		
17			5.23	149		
18	4.11	94	5.47	136	7.5	204
18.5			5.6	133		
19	4.2	92	5.6	133	7.3	200
19.5			5.58	134		
20	4.18	93	5.53	136	7.19	210
20.5			5.63	132		
21	4.4	87	5.8	127	7.75	196
21.5			5.9	124		
22	4.68	79	6.2	116	8.45	178
22.5			6.38	112		
23	4.8	77	6.35	112	8.6	173
23.5			6.35	112		
24	4.8	77	6.32	119	8.65	174
25	4.95	72.5	6.58	107	9	165
26	5.28	65	7.03	98	9.7	144
27	5.4	62	7.2	92	9.92	138
28	5.1	70	6.9	93	9.78	141
29	5.38	60.2	7.3	86	10.35	127
30	5.78	54	7.92	78	11.05	107
36	6.6	30.5	8.7	44.5	12.15	67
42	7.42	2	10.15	2.5	14.18	3.2
Reference	7.8		10.6		14.8	

Table A4-1 Continued

Flow Rate (gpm)	150		175		200	
Position (in. down from exit)	P_{abs} psi	P_{dif} in.H_2O	P_{abs} psi	P_{dif} in.H_2O	P_{abs} psi	P_{dif} in.H_2O
12	6.45		8.22		9.75	
13					10.2	
14					11.05	
15					12.68	
16					12.35	
17					12.7	
18	10	273	12.77	355	15	
18.5			12.85	350		
19	10.15	268	12.85	350	14.8	
19.5			12.8	353		
20	9.92	273	12.6	358	14.9	
20.5			12.9	350		
21	10.65	254	13.45	336	16	400
21.5			13.95	325		
22	11.45	232	14.75	304	17.4	360
22.5			15.15	292.5		
23	11	225	15.15	292.5	17.7	354
23.5			15.05	297		
24	11.6	228	14.92	302	17.5	358
25	12.25	212	15.75	280	18.5	332
26	13.15	186	17	243	20	288
27	13.4	180	17.4	234	20.45	277
28	13.2	183	17.1	241	20.1	285
29	13.85	167	17.88	220	21.05	260
30	14.8	139	19.3	183	22.7	217
36	16.18	92	21.7		25.5	
42	19.2	4.6	24.8	5.25	29.75	6.6
Reference	19.98		25.3		30.5	

TABLE A4-2
PRESSURE DROP READINGS
CENTER INJECTOR

Flow Rate (gpm)	25		40		60	
Position (in. down from exit)	P_{abs} psi	P_{dif} in.H_2O	P_{abs} psi	P_{dif} in.H_2O	P_{abs} psi	P_{dif} in.H_2O
12	1.48	22.2	1.8	43.2	2.49	76
18	1.68	16.4	2.18	31.2	3.21	58
18.5			2.19	31.2		
19			2.11	31		
19.5			2.2	30.2		
20			2.18	31	3.45	51
20.5			2.28	28.5		
21			2.15	28		
21.3			2.28	28		
22			2.32	26.3	3.3	55
22.5			2.3	27		
23			2.33	26.4		
23.5			2.38	25.6		
24	1.75	14.2	2.38	25.2	3.51	48.5
25			2.41	24.3		
26			2.5	22	3.9	4.0
27			2.52	21.6		
28			2.65	21.8	3.92	38
29			2.61	17.5	3.93	35
30	1.92	9.6	2.6	16.8	4.12	29
36	2.08	6.1	2.8	7.8	4.73	18.3
42	2.28	1.3	3.21	1.6	5.2	2.2
Reference	2.6		3.6		5.6	

(continued)

TABLE A4-2 (continued)

PRESSURE DROP READINGS

CENTER INJECTOR

Flow Rate (gpm)	80		100		125	
Position (in. down from exit)	P_{abs} psi	P_{dif} in.H_2O	P_{abs} psi	P_{dif} in.H_2O	P_{abs} psi	P_{dif} in.H_2O
12	3.19	118	4.0	171	5.35	
13			4.3	174		
14			4.8	163		
15			4.8	163		
16			5.19	152		
17			5.2	150		
18	4.19	92	5.58	134	7.6	199
18.5			5.55	135		
19	4.2	92	5.58	134	7.68	200
19.5			5.68	132		
20	4.3	89	5.72	129	7.9	192
20.5			5.93	126		
21	4.47	84	5.94	123	8.2	184
21.5			6.0	122		
22	4.79	77	6.38	113	8.85	168
22.5			6.3	114		
23	4.78	77.5	6.33	112	8.78	170
23.5			6.55	111		
24	4.92	74	6.65	110	9.1	161
25	5.0	71	6.82	103	9.15	158
26	5.3	63	7.22	95	9.98	137
27	5.38	62	7.25	94	10.0	136
28	5.55	60	7.32	85	10.3	128
29	5.6	56	7.5	80	10.6	121
30	5.8	51	8.05	77.5	11.1	106
36	6.65	28.5	8.85	39.2	12.38	58
42	7.31	4.7	10.0	6.6	13.95	11
Reference	7.8		10.6		14.8	

TABLE A4-2 (continued)

Flow Rate (gpm)	150		175		200	
Position (in. down from exit)	P_{abs} psi	P_{dif} in.H_2O	P_{abs} psi	P_{dif} in.H_2O	P_{abs} psi	P_{dif} in.H_2O
12	7.03		9.1		10.32	
13					11.02	
14					12.5	
15					12.35	
16					12.4	
17					12.6	
18	10.15	268	12.52	358	15	
18.5			12.7	353		
19	10.05	271	12.73	355	15	
19.5			13.0	347		
20	10.42	259	13.1	347	15.65	
20.5			13.78	325		
21	10.9	247	13.85	326	16.35	388
21.5			14.02	322		
22	11.75	225	15.08	293	17.8	348
22.5			14.9	300		
23	11.65	227	14.95	298	17.6	355
23.5			15.25	290		
24	12.18	214	15.6	282	17.4	360
25	12.5	206	16.01	269	18.9	320
26	13.25	183	17.15	238	20.2	284
27	13.25	182	17.1	240	20.1	288
28	13.7	171	17.73	223	19.02	317
29	14.05	162	18.22	212	21.4	253
30	14.83	140	19.25	184	22.7	217
36	16.5	78	21.25	112	26.35	
42	18.88	15	24.2	21.6	29	27.2
Reference	19.98		25.3		30.5	

TABLE A4-3
Pressure Readings
PRESSURE TAPS

42 Inches Below Exit

Pressure Tap	1		2		3	
Flow Rate (gpm)	P_{abs} psi	P_{dif} in.H_2O	P_{abs} psi	P_{dif} in.H_2O	P_{abs} psi	P_{dif} in.H_2O
0	1.75		1.3	0	1.3	0
5	1.8		1.4	0.25	1.38	0.5
10	1.9		1.53	0.25	1.5	2.0
15	2		1.7	0.25	1.73	1.85
20	2.2		1.9	0.25	1.88	1.5
25	2.6		2.3	0.25	2.22	1.8
30	2.85		2.5	0.6	2.48	1.8
35	3.25		2.9	0.5	2.85	2.1
40	3.6		3.26	0.6	3.2	2.25
45	4.2		3.78	0.7	3.7	2.4
50	4.8		4.38	0.75	4.3	2.8
60	5.6		5.3	0.7	5.2	3.1
70	6.75		6.37	0.75	6.28	4.0
80	7.8		7.45	0.8	7.33	4.0
90	9.1		8.71	1.1	8.58	4.5
100	10.6		10.08	1.25	9.93	5.1
125	14.8		14.22	1.75	14	8.4
150	19.98		19.3	2.6	18.95	12.2
175	25.3		24.85	3.4	24.3	17.7
200	30.5		29.9	4.2	29.2	22.2

TABLE A4-3 (continued)

Pressure Readings

PRESSURE TAPS

42 Inches Below Exit

Pressure Tap	4		5		6	
Flow Rate (gpm)	P_{abs} psi	P_{dif} in.H_2O	P_{abs} psi	P_{dif} in.H_2O	P_{abs} psi	P_{dif} in.H_2O
0	1.3	0.	1.3	0	1.3	0
5	1.375	0.5	1.38	0.25	1.38	1.9
10	1.5	0.25	1.5	0.8	1.5	0.2
15	1.8	0.4	1.8	0.6	1.78	0.3
20	1.95	0.5	1.98	0.75	2.0	0.2
25	2.28	0.8	2.28	0.8	2.3	0.2
30	2.5	1.25	2.5	1.2	2.52	0.3
35	2.85	1.75	2.9	1.5	2.92	0.4
40	3.2	2.0	3.2	1.6	3.22	0.4
45	3.68	2.5	3.7	2.0	3.78	0.5
50	4.2	3.2	4.25	2.5	4.3	0.5
60	5.15	4.5	5.2	3.0	5.3	0.6
70	6.18	6.0	6.28	3.8	6.4	0.7
80	7.22	7.3	7.28	4.7	7.4	0.75
90	8.42	9.25	8.48	5.6	8.72	0.8
100	9.7	11.15	9.82	6.5	10.18	0.8
125	13.65	17.6	13.95	10	14.22	1.4
150	18.45	25.4	18.75	12.6	19.28	1.7
175	23.7	35	24.28	18.25	24.9	2.1
200	28.5	43.7	29.25	22	30	2.2

TABLE A4-4

Pressure Readings

PRESSURE TAPS

12 Inches Below Exit

Pressure Tap	1		2		3	
Flow Rate (gpm)	P_{abs} psi	P_{dif} in.H_2O	P_{abs} psi	P_{dif} in.H_2O	P_{abs} psi	P_{dif} in.H_2O
0	1.3	0	1.3	0	1.3	0
5	1.39	2.0	1.375	2.0	1.3	2.0
10	1.35	5.0	1.35	5.0	1.35	5.0
15	1.5	10.1	1.48	10.1	1.48	10.0
20	1.51	13.75	1.52	13.6	1.51	13.4
25	1.6	20.25	1.6	20.2	1.62	19.8
30	1.68	25.25	1.69	25.1	1.7	24.6
35	1.8	32.7	1.8	32.5	1.81	31.7
40	1.82	39.25	1.88	39.1	1.89	38.3
45	1.98	50	2.0	49.5	2.02	48.3
50	2.15	60	2.18	59.	2.2	57
60	2.4	79	2.45	77.5	2.5	76
70	2.68	102.5	2.78	99.	2.83	97
80	2.99	123	3.05	122	3.17	118
90	3.35	147	3.49	144.	3.6	140
100	3.78	178	3.9	174.	4.1	170
125	5.1	253	5.32	247.5	5.6	241
150	6.3	361	6.62	352.	7.05	340
175	7.93		8.36		8.95	
200	9.3		9.88		10.65	

TABLE A4-4 (continued)

Pressure Tap

Flow Rate (gpm)	P_{abs} psi	P_{dif} in.H_2O	P_{abs} psi	P_{dif} in.H_2O	P_{abs} psi	P_{dif} in.H_2O
0	1.3	0	1.3	0	1.3	0
5	1.3	2.0	1.3	2.0	1.3	2.0
10	1.35	5.0	1.35	5.0	1.35	5.0
15	1.48	10.1	1.48	10.1		
20	1.51	13.3	1.5	13.4	1.5	13.5
25	1.63	19.5	1.63	19.75	1.63	20
30	1.7	24.2	1.7	24.5	1.69	24.8
35	1.85	31.1	1.82	31.75	1.82	32
40	1.9	37.4	1.89	37.9	1.85	38.6
45	2.08	47.2	2.07	47.7	2.03	48.7
50	2.27	53	2.22	54	2.2	57.5
60	2.58	75	2.52	74	2.47	7.75
70	2.92	94	2.88	97	2.8	98
80	3.28	115	3.2	117.5	3.1	120
90	3.72	137.5	3.63	139	3.51	142
100	4.22	166	4.14	168	4.0	172
125	5.75	236	5.58	240	5.65	238
150	7.38	332	7.2	337.5	7.8	347
175	9.35		9.015		8.61	
200	11.17		11.05		10.4	

Table A4-5

Average Pressure Calculations

Flow Rate (gpm)	42 Inches Below Exit		12 Inches Below Exit		Pressure Difference	
	$\overline{P}_{abs}$ psi	$\overline{P}_{dif}$ in.H_2O	$\overline{P}_{abs}$ psi	$\overline{P}_{dif}$ in.H_2O	$\overline{P}_{abs}$ psi	$\overline{P}_{dif}$ in.H_2O
5	1.45	0.567	1.33	2	0.12	1.43
10	1.572	0.583	1.35	5	0.22	4.42
15	1.8	0.566	1.48	10.1	0.32	9.53
20	1.985	0.533	1.51	13.49	0.48	12.96
25	2.33	0.642	1.62	19.92	0.71	19.28
30	2.56	0.858	1.69	24.74	0.87	23.88
35	2.945	1.042	1.82	31.96	1.13	30.92
40	3.28	1.142	1.87	38.43	1.41	37.28
45	3.81	1.35	2.03	48.57	1.78	47.22
50	4.37	1.625	2.2	56.75	2.16	55.13
60	5.29	1.98	2.49	76.5	2.8	74.52
70	6.38	2.54	2.815	97.92	3.57	95.38
80	7.41	2.925	3.13	119.25	4.28	116.33
90	8.67	3.54	3.55	141.58	5.12	138.04
100	10.05	4.13	4.02	171.33	6.02	167.2
125	14.14	6.525	5.5	242.58	8.64	236.06
150	19.12	9.08	7.06	344.92	12.06	335.84
175	24.56	12.74	8.7		15.86	
200	29.64	15.72	10.41		19.23	

Table A4-6 Friction Factor Results

Flow Rate (gpm)	Reynolds Number	Friction Factor From Data $f(\bar{P}_{abs})$	$f(\bar{P}_{dif})$	$f(\text{slope})$	Calculated Friction Factors $M\frac{.316}{Re^{.25}}$	$\frac{.316}{Re^{.25}}$	f'	$\frac{64}{Re}$
	200							0.32
5	308	0.399	0.164					
10	617	0.176	0.127					
15	925	0.112	0.122					
	1000							0.064
20	1233	0.094	0.093					
	1500							0.0427
25	1542	0.090	0.089					
30	1850	0.077	0.076					
	2000							0.032
35	2158	0.073	0.073					
40	2467	0.070	0.067	0.065				
	2500				0.0783	0.0447	0.054	
45	2775	0.070	0.067					
50	3084	0.069	0.063					
	3500				0.0728	0.041		
60	3700	0.062	0.060					
70	4317	0.058	0.056					
	4500				0.069	0.039	0.041	
80	4934	0.053	0.052	0.046				
90	5550	0.050	0.049					
	6000				0.0648	0.036	0.0361	
100	6167	0.048	0.048	0.042				
125	7709	0.044	0.043	0.043				
150	9251	0.043	0.043	0.041				
	10000				0.0582	0.032	0.030	
175	10792	0.041		0.039				
	12000					0.030	0.029	
200	12334	0.038		0.037				
	14000				0.054	0.029		

Appendix 5

MIXING DATA

Listed in the order specified below are the mixing data for the mixing experiments analyzed. The readings are in grams of salt per pound of water.

Mixing Data

1. Central Injection - 25 gpm (Re = 1542)
2. Central Injection - 185 gpm (Re = 11410)
3. Edge Injection - 25 gpm (Re = 1542)
4. Edge Injection - 185 gpm (Re = 11410)
5. Peripheral Injection - 25 gpm (Re = 1542)

A5.1. Central Injection Mixing Data (gm/lbm)

Injection Subchannel: 50

Reynolds Number: 1542

Flow Rate: 25 gpm

Injection Concentration: 25 gm/lbm

Injection Flow Rate: 0.041 lbm/min

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**SALT CONCENTRATIONS FOLLOW:

    AXIAL POSITION #  1, AXIAL LOCATION = 42.00 INCHES, SALT OBSERVED =0.0043 G-SALT/LBM-WATER, SALT MISSED =0.0006 G-SALT/LBM-WATER

PROBES   1 THRU   8         0.0275     0.0192     0.0145     0.0079     0.0018     0.0015    -0.0002     0.0002
PROBES   9 THRU  16         0.0107     0.0082     0.0062     0.0014     0.0003    -0.0001    -0.0001     0.0038
PROBES  17 THRU  24         0.0009     0.0001     0.0003     0.0003     0.0001     0.0000     0.0029     0.0024
PROBES  25 THRU  32         0.0294     0.0248     0.0173     0.0139     0.0031     0.0043     0.0001     0.0136
PROBES  33 THRU  40         0.0147     0.0070     0.0116     0.0088    -0.0001     0.0030     0.0048     0.0024
PROBES  41 THRU  48         0.0040     0.0054     0.0002    -0.0005     0.0006     0.0002    -0.0005     0.0005
PROBES  49 THRU  56         0.0271     0.0291     0.0233     0.0162     0.0140     0.0126     0.0001     0.0000
PROBES  57 THRU  64         0.0221     0.0164     0.0152     0.0058     0.0021     0.0016     0.0042     0.0145
PROBES  65 THRU  72         0.0029     0.0094     0.0002     0.0003     0.0004     0.0004     0.0002    -0.0008
PROBES  73 THRU  80         0.0196     0.0002    -0.0000     0.0016     0.0040     0.0138     0.0172     0.0227
PROBES  81 THRU  88         0.0124     0.0050     0.0007    -0.0006    -0.0000     0.0055     0.0051     0.0030
PROBES  89 THRU  96         0.0041     0.0011    -0.0003    -0.0006     0.0074     0.0096    -0.0003     0.0055
PROBES  97 THRU 104         0.0013     0.0003     0.0000    -0.0001     0.0017     0.0000    -0.0001    -0.0005
PROBES 105 THRU 112         0.0007     0.0003     0.0039     0.0002     0.0004     0.0003     0.0001     0.0014
PROBES 113 THRU 120         0.0006    -0.0006    -0.0004    -0.0004     0.0003     0.0002     0.0037     0.0007
PROBES 121 THRU 126         0.0002     0.0001    -0.0004     0.0002     0.0012    -0.0003

    AXIAL POSITION #  2, AXIAL LOCATION = 36.00 INCHES, SALT OBSERVED =0.0044 G-SALT/LBM-WATER, SALT MISSED =0.0005 G-SALT/LBM-WATER

PROBES   1 THRU   8         0.0324     0.0177     0.0093     0.0029    -0.0004     0.0004    -0.0001     0.0004
PROBES   9 THRU  16         0.0160     0.0088     0.0044     0.0001    -0.0001    -0.0001     0.0000     0.0047
PROBES  17 THRU  24         0.0007     0.0001     0.0003     0.0004     0.0002    -0.0000     0.0021     0.0018
PROBES  25 THRU  32         0.0381     0.0380     0.0285     0.0196     0.0098     0.0064     0.0001     0.0205
PROBES  33 THRU  40         0.0189     0.0162     0.0148     0.0125     0.0004     0.0054     0.0115     0.0061
PROBES  41 THRU  48         0.0080     0.0081     0.0002    -0.0005     0.0011     0.0011    -0.0005     0.0014
PROBES  49 THRU  56         0.0205     0.0353     0.0314     0.0281     0.0158     0.0142     0.0004    -0.0000
PROBES  57 THRU  64         0.0144     0.0143     0.0172     0.0037     0.0017     0.0010     0.0045     0.0106
PROBES  65 THRU  72         0.0007     0.0070     0.0002     0.0004     0.0002     0.0003     0.0003    -0.0008
PROBES  73 THRU  80         0.0081     0.0002     0.0001     0.0005     0.0000     0.0098     0.0075     0.0168
PROBES  81 THRU  88         0.0031    -0.0002    -0.0002    -0.0003     0.0008     0.0014     0.0022     0.0000
PROBES  89 THRU  96         0.0001     0.0002     0.0003    -0.0005     0.0042     0.0035    -0.0002     0.0028
PROBES  97 THRU 104         0.0017     0.0003     0.0000    -0.0001     0.0013     0.0002    -0.0008     0.0011
PROBES 105 THRU 112         0.0008     0.0003     0.0039     0.0002     0.0003     0.0003     0.0001     0.0019
PROBES 113 THRU 120         0.0006    -0.0006    -0.0002     0.0002     0.0004     0.0001     0.0033    -0.0005

    AXIAL POSITION #  3, AXIAL LOCATION = 30.00 INCHES, SALT OBSERVED =0.0040 G-SALT/LBM-WATER, SALT MISSED =0.0009 G-SALT/LBM-WATER

PROBES   1 THRU   8         0.0381     0.0212     0.0118     0.0040    -0.0002     0.0004    -0.0001     0.0003
PROBES   9 THRU  16         0.0122     0.0068     0.0030    -0.0000    -0.0001    -0.0001     0.0000     0.0025
PROBES  17 THRU  24         0.0003     0.0001     0.0003     0.0003     0.0001     0.0001     0.0012     0.0010
PROBES  25 THRU  32         0.0461     0.0377     0.0212     0.0141     0.0018     0.0026     0.0001     0.0193
PROBES  33 THRU  40         0.0155     0.0074     0.0113     0.0077    -0.0001     0.0025     0.0055     0.0010
PROBES  41 THRU  48         0.0026     0.0036     0.0002    -0.0007     0.0002     0.0001    -0.0003     0.0005
PROBES  49 THRU  56         0.0291     0.0388     0.0289     0.0207     0.0131     0.0107    -0.0001     0.0002
PROBES  57 THRU  64         0.0235     0.0164     0.0170     0.0034     0.0007     0.0005     0.0034     0.0122
PROBES  65 THRU  72         0.0008     0.0058     0.0003     0.0004     0.0002     0.0003     0.0003    -0.0008
PROBES  73 THRU  80         0.0165     0.0001     0.0000     0.0007     0.0007     0.0112     0.0149     0.0257
PROBES  81 THRU  88         0.0081     0.0013    -0.0004    -0.0006     0.0004     0.0027     0.0052     0.0010
PROBES  89 THRU  96         0.0002     0.0002    -0.0000    -0.0009     0.0049     0.0060    -0.0003     0.0020

    AXIAL POSITION #  4, AXIAL LOCATION = 24.00 INCHES, SALT OBSERVED =0.0043 G-SALT/LBM-WATER, SALT MISSED =0.0006 G-SALT/LBM-WATER

PROBES   1 THRU   8         0.0329     0.0146     0.0051    -0.0002    -0.0003     0.0002    -0.0000     0.0005
PROBES   9 THRU  16         0.0162     0.0038     0.0010    -0.0001     0.0000    -0.0001     0.0002     0.0016
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PROBES  17 THRU  24       0.0002    0.0002    0.0003    0.0002    0.0001    0.0001    0.0033    0.0018
PROBES  25 THRU  32       0.0509    0.0574    0.0502    0.0314    0.0141    0.0055    0.0001    0.0239
PROBES  33 THRU  40       0.0248    0.0229    0.0171    0.0118    0.0003    0.0021    0.0082    0.0031
PROBES  41 THRU  48       0.0085    0.0070    0.0003   -0.0006    0.0003    0.0003   -0.0004    0.0010
PROBES  49 THRU  56       0.0119    0.0414    0.0417    0.0390    0.0173    0.0142    0.0000    0.0001
PROBES  57 THRU  64       0.0058    0.0120    0.0163    0.0022    0.0014    0.0006    0.0048    0.0083
PROBES  65 THRU  72       0.0002    0.0046    0.0003    0.0005    0.0002    0.0002    0.0003   -0.0008
PROBES  73 THRU  80       0.0037    0.0001    0.0004    0.0004   -0.0001    0.0061    0.0030    0.0112
PROBES  81 THRU  88       0.0009   -0.0001    0.0007    0.0002    0.0009    0.0004    0.0003    0.0002
PROBES  89 THRU  96       0.0008    0.0004    0.0006    0.0001    0.0024    0.0012   -0.0002    0.0024

   AXIAL POSITION #  5, AXIAL LOCATION = 23.00 INCHES, SALT OBSERVED =0.0042 G-SALT/LBM-WATER, SALT MISSED =0.0007 G-SALT/LBM-WATER

PROBES   1 THRU   8       0.0512    0.0222    0.0112    0.0018   -0.0006    0.0003    0.0002    0.0005
PROBES   9 THRU  16       0.0148    0.0059    0.0026   -0.0002   -0.0001   -0.0001    0.0002    0.0015
PROBES  17 THRU  24       0.0002    0.0001    0.0004    0.0003    0.0001    0.0002    0.0040    0.0010
PROBES  25 THRU  32       0.0603    0.0454    0.0203    0.0130    0.0005    0.0013    0.0001    0.0174
PROBES  33 THRU  40       0.0153    0.0051    0.0092    0.0044   -0.0001    0.0009    0.0035   -0.0002
PROBES  41 THRU  48       0.0017    0.0044    0.0002   -0.0003    0.0001    0.0001   -0.0000    0.0005
PROBES  49 THRU  56       0.0386    0.0584    0.0344    0.0236    0.0119    0.0065    0.0000    0.0002
PROBES  57 THRU  64       0.0265    0.0155    0.0178    0.0019    0.0004    0.0003    0.0024    0.0098
PROBES  65 THRU  72       0.0002    0.0027    0.0004    0.0003    0.0002    0.0002    0.0004   -0.0007
PROBES  73 THRU  80       0.0144    0.0002    0.0002    0.0004   -0.0001    0.0097    0.0116    0.0247
PROBES  81 THRU  88       0.0043   -0.0002    0.0001    0.0005    0.0009    0.0009    0.0024    0.0000
PROBES  89 THRU  96       0.0004    0.0003    0.0005   -0.0000    0.0020    0.0024   -0.0002    0.0024

   AXIAL POSITION #  6, AXIAL LOCATION = 22.00 INCHES, SALT OBSERVED =0.0042 G-SALT/LBM-WATER, SALT MISSED =0.0007 G-SALT/LBM-WATER

PROBES   1 THRU   8       0.0429    0.0215    0.0112    0.0022   -0.0006    0.0003    0.0003    0.0005
PROBES   9 THRU  16       0.0069    0.0027    0.0009   -0.0002   -0.0001   -0.0001    0.0002    0.0007
PROBES  17 THRU  24       0.0002    0.0003    0.0004    0.0003    0.0002    0.0001    0.0033    0.0018
PROBES  25 THRU  32       0.0503    0.0386    0.0189    0.0124    0.0004    0.0023    0.0032    0.0098
PROBES  33 THRU  40       0.0135    0.0024    0.0084    0.0040   -0.0001    0.0006    0.0015   -0.0005
PROBES  41 THRU  48       0.0010    0.0030    0.0002   -0.0003    0.0002    0.0002   -0.0002    0.0004
PROBES  49 THRU  56       0.0433    0.0498    0.0394    0.0241    0.0133    0.0090   -0.0000    0.0005
PROBES  57 THRU  64       0.0353    0.0199    0.0260    0.0050    0.0006    0.0004    0.0018    0.0120
PROBES  65 THRU  72       0.0007    0.0058    0.0003    0.0004    0.0002    0.0003    0.0003   -0.0008
PROBES  73 THRU  80       0.0259    0.0002    0.0001    0.0004    0.0004    0.0116    0.0177    0.0337
PROBES  81 THRU  88       0.0103    0.0009   -0.0004   -0.0002    0.0005    0.0025    0.0065    0.0004

   AXIAL POSITION #  7, AXIAL LOCATION = 21.00 INCHES, SALT OBSERVED =0.0039 G-SALT/LBM-WATER, SALT MISSED =0.0011 G-SALT/LBM-WATER

PROBES   1 THRU   8       0.0378    0.0167    0.0065    0.0000   -0.0006    0.0002   -0.0000    0.0005
PROBES   9 THRU  16       0.0092    0.0028    0.0007   -0.0001    0.0000   -0.0001    0.0001    0.0009
PROBES  17 THRU  24       0.0002    0.0002    0.0004    0.0003    0.0002    0.0002    0.0025   -0.0001
PROBES  25 THRU  32       0.0521    0.0445    0.0214    0.0135    0.0010    0.0023    0.0001    0.0145
PROBES  33 THRU  40       0.0158    0.0066    0.0099    0.0051   -0.0001    0.0007    0.0021   -0.0004
PROBES  41 THRU  48       0.0017    0.0036    0.0001   -0.0000    0.0002    0.0001    0.0001    0.0005
PROBES  49 THRU  56       0.0333    0.0550    0.0411    0.0273    0.0131    0.0093   -0.0000    0.0005
PROBES  57 THRU  64       0.0241    0.0153    0.0203    0.0023    0.0005    0.0003    0.0010    0.0098
PROBES  65 THRU  72       0.0002    0.0023    0.0003    0.0003    0.0002    0.0002    0.0004   -0.0005
PROBES  73 THRU  80       0.0115    0.0002    0.0002    0.0004   -0.0001    0.0071    0.0081    0.0190
PROBES  81 THRU  88       0.0026   -0.0003    0.0007    0.0003    0.0006    0.0008    0.0012    0.0000
PROBES  89 THRU  96       0.0007    0.0004    0.0004   -0.0000    0.0012    0.0035   -0.0000    0.0016
PROBES  97 THRU 104       0.0008    0.0003    0.0000   -0.0001    0.0003    0.0004   -0.0025   -0.0001
PROBES 105 THRU 112       0.0006    0.0003    0.0027    0.0004    0.0006    0.0002   -0.0000    0.0008

   AXIAL POSITION #  8, AXIAL LOCATION = 20.00 INCHES, SALT OBSERVED =0.0040 G-SALT/LBM-WATER, SALT MISSED =0.0009 G-SALT/LBM-WATER

PROBES   1 THRU   8       0.0376    0.0155    0.0049   -0.0003   -0.0003    0.0002    0.0002    0.0006
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PROBES   9 THRU  16      0.0162    0.0032    0.0002    0.0001    0.0002   -0.0000    0.0003    0.0012
PROBES  17 THRU  24      0.0002    0.0002    0.0004    0.0003    0.0002    0.0003   -0.0005    0.0010
PROBES  25 THRU  32      0.0524    0.0596    0.0466    0.0280    0.0100    0.0037    0.0001    0.0229
PROBES  33 THRU  40      0.0228    0.0197    0.0156    0.0097    0.0000    0.0010    0.0064    0.0017
PROBES  41 THRU  48      0.0071    0.0061    0.0002   -0.0005    0.0002    0.0001   -0.0002    0.0008
PROBES  49 THRU  56      0.0103    0.0424    0.0417    0.0418    0.0161    0.0131   -0.0001    0.0003
PROBES  57 THRU  64      0.0050    0.0116    0.0131    0.0006    0.0004    0.0003    0.0014    0.0043
PROBES  65 THRU  72      0.0002    0.0015    0.0005    0.0004    0.0002    0.0003    0.0004   -0.0007
PROBES  73 THRU  80      0.0015    0.0001    0.0001    0.0003    0.0002    0.0040    0.0014    0.0061
PROBES  81 THRU  88      0.0003    0.0004    0.0014    0.0008    0.0008    0.0004    0.0002    0.0003
PROBES  89 THRU  96      0.0008    0.0003    0.0005    0.0003    0.0004    0.0020   -0.0000    0.0016

   AXIAL POSITION #  9, AXIAL LOCATION = 19.00 INCHES, SALT OBSERVED =0.0035 G-SALT/LBM-WATER, SALT MISSED =0.0014 G-SALT/LBM-WATER

PROBES   1 THRU   8      0.0569    0.0234    0.0106    0.0011   -0.0005    0.0002    0.0002    0.0006
PROBES   9 THRU  16      0.0129    0.0055    0.0016   -0.0000    0.0000    0.0000    0.0004    0.0010
PROBES  17 THRU  24      0.0001    0.0001    0.0004    0.0003    0.0002    0.0003   -0.0006    0.0010
PROBES  25 THRU  32      0.0551    0.0405    0.0157    0.0104   -0.0001   -0.0001    0.0001    0.0151
PROBES  33 THRU  40      0.0135    0.0024    0.0073    0.0014    0.0001    0.0010    0.0031   -0.0005
PROBES  41 THRU  48      0.0011    0.0023    0.0002   -0.0003    0.0001    0.0003    0.0002    0.0003
PROBES  49 THRU  56      0.0330    0.0531    0.0292    0.0147    0.0073    0.0036    0.0002    0.0004
PROBES  57 THRU  64      0.0198    0.0130    0.0133    0.0003    0.0002    0.0003    0.0010    0.0068
PROBES  65 THRU  72      0.0002    0.0003    0.0005    0.0003    0.0003    0.0003    0.0005   -0.0004
PROBES  73 THRU  80      0.0113    0.0001    0.0002    0.0003   -0.0001    0.0083    0.0097    0.0257
PROBES  81 THRU  88      0.0022   -0.0002    0.0008    0.0011    0.0014    0.0005    0.0007    0.0002
PROBES  89 THRU  96      0.0009    0.0005    0.0004    0.0002    0.0012    0.0024   -0.0000    0.0012

   AXIAL POSITION # 10, AXIAL LOCATION = 18.00 INCHES, SALT OBSERVED =0.0038 G-SALT/LBM-WATER, SALT MISSED =0.0011 G-SALT/LBM-WATER

PROBES   1 THRU   8      0.0415    0.0217    0.0112    0.0013   -0.0006    0.0002    0.0001    0.0007
PROBES   9 THRU  16      0.0033    0.0010   -0.0000    0.0002    0.0000   -0.0000    0.0002    0.0003
PROBES  17 THRU  24      0.0002    0.0003    0.0004    0.0002    0.0004    0.0004    0.0004   -0.0005
PROBES  25 THRU  32      0.0530    0.0341    0.0140    0.0095   -0.0001    0.0006    0.0002    0.0059
PROBES  33 THRU  40      0.0108    0.0005    0.0039    0.0023    0.0001    0.0004    0.0002   -0.0002
PROBES  41 THRU  48      0.0003    0.0023    0.0002    0.0001    0.0000    0.0004   -0.0000    0.0003
PROBES  49 THRU  56      0.0483    0.0557    0.0367    0.0162    0.0105    0.0032    0.0002    0.0005
PROBES  57 THRU  64      0.0397    0.0201    0.0260    0.0028    0.0002    0.0003    0.0024    0.0106
PROBES  65 THRU  72      0.0002    0.0023    0.0005    0.0003    0.0003    0.0003    0.0004   -0.0003
PROBES  73 THRU  80      0.0113    0.0001    0.0002    0.0004    0.0000    0.0106    0.0170    0.0291
PROBES  81 THRU  88      0.0087    0.0004    0.0002    0.0004    0.0011    0.0010    0.0040    0.0001
PROBES  89 THRU  96      0.0003    0.0003    0.0006    0.0002   -0.0001    0.0035    0.0000    0.0016

   AXIAL POSITION # 11, AXIAL LOCATION = 17.00 INCHES, SALT OBSERVED =0.0033 G-SALT/LBM-WATER, SALT MISSED =0.0016 G-SALT/LBM-WATER

PROBES   1 THRU   8      0.0445    0.0176    0.0052   -0.0002   -0.0005    0.0002    0.0001    0.0003
PROBES   9 THRU  16      0.0061    0.0016   -0.0001    0.0002    0.0001    0.0001    0.0003    0.0004
PROBES  17 THRU  24      0.0002    0.0006    0.0004    0.0002    0.0004    0.0004    0.0004   -0.0005
PROBES  25 THRU  32      0.0586    0.0411    0.0161    0.0106   -0.0001   -0.0001    0.0001    0.0134
PROBES  33 THRU  40      0.0132    0.0016    0.0050    0.0004    0.0001    0.0005    0.0007   -0.0004
PROBES  41 THRU  48      0.0005    0.0010    0.0003   -0.0001    0.0001    0.0006    0.0001    0.0003
PROBES  49 THRU  56      0.0339    0.0588    0.0342    0.0169    0.0089    0.0032    0.0002    0.0004
PROBES  57 THRU  64      0.0212    0.0138    0.0161    0.0003    0.0002    0.0003    0.0014    0.0057
PROBES  65 THRU  72      0.0002    0.0011    0.0006    0.0003    0.0003    0.0003    0.0006   -0.0004
PROBES  73 THRU  80      0.0115    0.0001    0.0002    0.0003    0.0000    0.0065    0.0085    0.0217
PROBES  81 THRU  88      0.0017   -0.0001    0.0008    0.0011    0.0010    0.0003    0.0004    0.0002
PROBES  89 THRU  96      0.0012    0.0003    0.0006    0.0003   -0.0006    0.0020   -0.0000    0.0012

   AXIAL POSITION # 12, AXIAL LOCATION = 16.00 INCHES, SALT OBSERVED =0.0038 G-SALT/LBM-WATER, SALT MISSED =0.0011 G-SALT/LBM-WATER

PROBES   1 THRU   8      0.0501    0.0167    0.0051   -0.0004   -0.0003    0.0002    0.0002    0.0003
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PROBES   9 THRU  16      0.0224    0.0057    0.0009   -0.0000    0.0001    0.0001    0.0002    0.0012
PROBES  17 THRU  24      0.0002    0.0003    0.0004    0.0003    0.0004    0.0003    0.0008    0.0018
PROBES  25 THRU  32      0.0719    0.0734    0.0355    0.0170    0.0010    0.0029    0.0033    0.0312
PROBES  33 THRU  40      0.0268    0.0192    0.0123    0.0058   -0.0001    0.0010    0.0076    0.0010
PROBES  41 THRU  48      0.0053    0.0038    0.0003   -0.0002    0.0001    0.0002    0.0002    0.0005
PROBES  49 THRU  56      0.0067    0.0438    0.0270    0.0300    0.0096    0.0065    0.0002    0.0005
PROBES  57 THRU  64      0.0042    0.0071    0.0041    0.0004    0.0003    0.0003    0.0014    0.0021
PROBES  65 THRU  72      0.0002   -0.0001    0.0004    0.0003    0.0002    0.0002    0.0005   -0.0005
PROBES  73 THRU  80      0.0010    0.0001    0.0003    0.0004    0.0003    0.0034    0.0019    0.0128
PROBES  81 THRU  88      0.0003    0.0005    0.0010    0.0008    0.0009    0.0003    0.0003    0.0006
PROBES  89 THRU  96      0.0012    0.0003    0.0009    0.0007   -0.0010   -0.0006    0.0000    0.0012

  AXIAL POSITION # 13, AXIAL LOCATION = 15.00 INCHES, SALT OBSERVED =0.0038 G-SALT/LBM-WATER, SALT MISSED =0.0011 G-SALT/LBM-WATER

PROBES   1 THRU   8      0.0646    0.0254    0.0105    0.0009   -0.0003    0.0002    0.0002    0.0003
PROBES   9 THRU  16      0.0169    0.0086    0.0025   -0.0000    0.0001    0.0001    0.0002    0.0009
PROBES  17 THRU  24      0.0002    0.0002    0.0004    0.0003    0.0003    0.0004   -0.0001   -0.0001
PROBES  25 THRU  32      0.0735    0.0509    0.0150    0.0086   -0.0000   -0.0001    0.0002    0.0181
PROBES  33 THRU  40      0.0137    0.0021    0.0042    0.0014   -0.0000    0.0007    0.0019   -0.0005
PROBES  41 THRU  48      0.0004   -0.0005    0.0003   -0.0002    0.0001    0.0005    0.0001    0.0003
PROBES  49 THRU  56      0.0366    0.0737    0.0303    0.0172    0.0036   -0.0001    0.0001    0.0004
PROBES  57 THRU  64      0.0192    0.0108    0.0078    0.0001    0.0002    0.0003    0.0014    0.0031
PROBES  65 THRU  72      0.0002   -0.0001    0.0004    0.0003    0.0003    0.0002    0.0004   -0.0004
PROBES  73 THRU  80      0.0070    0.0001    0.0004    0.0003    0.0000    0.0059    0.0071    0.0301
PROBES  81 THRU  88      0.0009    0.0003    0.0011    0.0009    0.0011    0.0003    0.0003    0.0003
PROBES  89 THRU  96      0.0011    0.0003    0.0005    0.0007   -0.0006    0.0020    0.0000    0.0012

  AXIAL POSITION # 14, AXIAL LOCATION = 14.00 INCHES, SALT OBSERVED =0.0038 G-SALT/LBM-WATER, SALT MISSED =0.0011 G-SALT/LBM-WATER

PROBES   1 THRU   8      0.0429    0.0208    0.0089    0.0008   -0.0005    0.0002    0.0003    0.0003
PROBES   9 THRU  16      0.0019    0.0001   -0.0001    0.0002    0.0001    0.0001    0.0002    0.0002
PROBES  17 THRU  24      0.0003    0.0001    0.0004    0.0003    0.0005    0.0005    0.0021    0.0003
PROBES  25 THRU  32      0.0593    0.0366    0.0121    0.0059    0.0002    0.0016    0.0002    0.0028
PROBES  33 THRU  40      0.0092   -0.0002    0.0014   -0.0006    0.0002    0.0003    0.0002    0.0006
PROBES  41 THRU  48      0.0003    0.0010    0.0004    0.0002    0.0001    0.0003    0.0001    0.0003
PROBES  49 THRU  56      0.0580    0.0713    0.0336    0.0112    0.0045   -0.0007    0.0004    0.0010
PROBES  57 THRU  64      0.0423    0.0159    0.0181    0.0001    0.0002    0.0003    0.0014    0.0071
PROBES  65 THRU  72      0.0002    0.0007    0.0004    0.0003    0.0004    0.0003    0.0005   -0.0004
PROBES  73 THRU  80      0.0270    0.0001    0.0004    0.0003   -0.0001    0.0102    0.0221    0.0349
PROBES  81 THRU  88      0.0083   -0.0003    0.0005    0.0006    0.0007    0.0005    0.0027    0.0000
PROBES  89 THRU  96      0.0007    0.0005    0.0004    0.0006   -0.0001    0.0027    0.0001    0.0008

  AXIAL POSITION # 15, AXIAL LOCATION = 13.00 INCHES, SALT OBSERVED =0.0032 G-SALT/LBM-WATER, SALT MISSED =0.0017 G-SALT/LBM-WATER

PROBES   1 THRU   8      0.0440    0.0155    0.0032   -0.0004   -0.0001    0.0002    0.0002    0.0003
PROBES   9 THRU  16      0.0013    0.0000    0.0001    0.0006    0.0003    0.0000    0.0004    0.0003
PROBES  17 THRU  24      0.0003    0.0003    0.0004    0.0003    0.0004    0.0005    0.0021    0.0007
PROBES  25 THRU  32      0.0633    0.0358    0.0123    0.0057    0.0002   -0.0008    0.0002    0.0018
PROBES  33 THRU  40      0.0079   -0.0002    0.0010    0.0004   -0.0000    0.0002    0.0002   -0.0001
PROBES  41 THRU  48      0.0003    0.0006    0.0004    0.0002    0.0001    0.0003    0.0002    0.0003
PROBES  49 THRU  56      0.0462    0.0737    0.0403    0.0135    0.0048   -0.0007    0.0004    0.0002
PROBES  57 THRU  64      0.0259    0.0130    0.0199    0.0001    0.0003    0.0003    0.0007    0.0043
PROBES  65 THRU  72      0.0003   -0.0001    0.0004    0.0003    0.0003    0.0002    0.0005   -0.0005
PROBES  73 THRU  80      0.0139    0.0002    0.0003    0.0004    0.0003    0.0059    0.0086    0.0235
PROBES  81 THRU  88      0.0011    0.0003    0.0014    0.0008    0.0008    0.0003    0.0002    0.0005
PROBES  89 THRU  96      0.0016    0.0006    0.0006    0.0009   -0.0015   -0.0015    0.0002    0.0004

  AXIAL POSITION # 16, AXIAL LOCATION = 12.00 INCHES, SALT OBSERVED =0.0036 G-SALT/LBM-WATER, SALT MISSED =0.0014 G-SALT/LBM-WATER

PROBES   1 THRU   8      0.0484    0.0141    0.0029   -0.0004    0.0001    0.0002    0.0005    0.0007
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PROBES   9 THRU  16      0.0164    0.0014   -0.0001    0.0004    0.0004   -0.0001    0.0004    0.0004
PROBES  17 THRU  24      0.0002    0.0003    0.0004    0.0003    0.0004    0.0005    0.0021    0.0003
PROBES  25 THRU  32      0.0866    0.0345    0.0379    0.0150    0.0002    0.0019    0.0001    0.0266
PROBES  33 THRU  40      0.0226    0.0142    0.0098    0.0014   -0.0001    0.0002    0.0018   -0.0004
PROBES  41 THRU  48      0.0010    0.0017    0.0002    0.0001    0.0001    0.0003    0.0000    0.0004
PROBES  49 THRU  56      0.0048    0.0513    0.0284    0.0363    0.0082    0.0032    0.0002    0.0006
PROBES  57 THRU  64      0.0004    0.0022    0.0019    0.0004    0.0002    0.0003    0.0021    0.0010
PROBES  65 THRU  72      0.0003   -0.0015    0.0007    0.0003    0.0003    0.0003    0.0004   -0.0007
PROBES  73 THRU  80      0.0001    0.0002    0.0004    0.0003    0.0004    0.0019    0.0006    0.0076
PROBES  81 THRU  88      0.0003    0.0006    0.0019    0.0011    0.0006    0.0003    0.0004    0.0010
PROBES  89 THRU  96      0.0013    0.0005    0.0008    0.0009   -0.0020   -0.0015    0.0003   -0.0001

    AXIAL POSITION # 17, AXIAL LOCATION = 11.50 INCHES, SALT OBSERVED =0.0037 G-SALT/LBM-WATER, SALT MISSED =0.0012 G-SALT/LBM-WATER

PROBES   1 THRU   8      0.0680    0.0197    0.0057   -0.0004   -0.0002    0.0003    0.0003    0.0005
PROBES   9 THRU  16      0.0160    0.0027   -0.0000    0.0005    0.0002    0.0001    0.0005    0.0003
PROBES  17 THRU  24      0.0002    0.0004    0.0004    0.0003    0.0004    0.0007    0.0012    0.0021
PROBES  25 THRU  32      0.1017    0.0776    0.0217    0.0100    0.0001    0.0003    0.0001    0.0239
PROBES  33 THRU  40      0.0168    0.0051    0.0045   -0.0017    0.0001    0.0003    0.0004   -0.0002
PROBES  41 THRU  48      0.0005    0.0010    0.0003    0.0001    0.0000    0.0004    0.0002    0.0003
PROBES  49 THRU  56      0.0229    0.0693    0.0241    0.0218    0.0029    0.0018    0.0002    0.0007
PROBES  57 THRU  64      0.0112    0.0044    0.0024    0.0004    0.0002    0.0003    0.0014    0.0007
PROBES  65 THRU  72      0.0002   -0.0015    0.0007    0.0003    0.0003    0.0002    0.0004   -0.0005
PROBES  73 THRU  80      0.0031    0.0001    0.0004    0.0003    0.0004    0.0042    0.0031    0.0197
PROBES  81 THRU  88      0.0003    0.0005    0.0009    0.0008    0.0009    0.0003    0.0003    0.0004

    AXIAL POSITION # 18, AXIAL LOCATION = 11.00 INCHES, SALT OBSERVED =0.0033 G-SALT/LBM-WATER, SALT MISSED =0.0016 G-SALT/LBM-WATER

PROBES   1 THRU   8      0.0518    0.0175    0.0036   -0.0004    0.0003    0.0003    0.0004    0.0004
PROBES   9 THRU  16      0.0012   -0.0000    0.0003    0.0000    0.0002    0.0001    0.0005    0.0003
PROBES  17 THRU  24      0.0003    0.0001    0.0004    0.0003    0.0004    0.0005    0.0017    0.0018
PROBES  25 THRU  32      0.0828    0.0483    0.0119    0.0030    0.0004   -0.0008    0.0003    0.0019
PROBES  33 THRU  40      0.0079   -0.0002   -0.0013   -0.0001    0.0000    0.0002    0.0008    0.0002
PROBES  41 THRU  48      0.0003    0.0006    0.0005    0.0006    0.0000    0.0008    0.0003    0.0003
PROBES  49 THRU  56      0.0526    0.0778    0.0270    0.0061    0.0039   -0.0007    0.0006    0.0003
PROBES  57 THRU  64      0.0327    0.0092    0.0069    0.0003    0.0002    0.0003    0.0007    0.0014
PROBES  65 THRU  72      0.0002   -0.0015    0.0007    0.0003    0.0002    0.0003    0.0005   -0.0001
PROBES  73 THRU  80      0.0125    0.0002    0.0004    0.0003    0.0002    0.0067    0.0118    0.0252
PROBES  81 THRU  88      0.0014    0.0004    0.0007    0.0012    0.0006    0.0003    0.0003    0.0003

    AXIAL POSITION # 19, AXIAL LOCATION = 10.50 INCHES, SALT OBSERVED =0.0036 G-SALT/LBM-WATER, SALT MISSED =0.0013 G-SALT/LBM-WATER

PROBES   1 THRU   8      0.0429    0.0163    0.0027   -0.0003    0.0003    0.0003    0.0004    0.0004
PROBES   9 THRU  16      0.0009    0.0000    0.0004    0.0007    0.0004   -0.0000    0.0003    0.0003
PROBES  17 THRU  24      0.0002    0.0003    0.0004    0.0003    0.0004    0.0007    0.0008    0.0014
PROBES  25 THRU  32      0.0833    0.0539    0.0141    0.0064    0.0003    0.0010    0.0002    0.0009
PROBES  33 THRU  40      0.0085   -0.0002   -0.0005    0.0004   -0.0000    0.0002    0.0004    0.0004
PROBES  41 THRU  48      0.0003    0.0006    0.0004    0.0003    0.0000    0.0004    0.0003    0.0003
PROBES  49 THRU  56      0.0580    0.0904    0.0322    0.0101    0.0011   -0.0001    0.0002    0.0002
PROBES  57 THRU  64      0.0330    0.0104    0.0078    0.0004    0.0002    0.0003    0.0003    0.0014
PROBES  65 THRU  72      0.0003   -0.0015    0.0007    0.0003    0.0003    0.0003    0.0005   -0.0001
PROBES  73 THRU  80      0.0173    0.0002    0.0004    0.0003    0.0001    0.0078    0.0142    0.0280

    AXIAL POSITION # 20, AXIAL LOCATION = 10.00 INCHES, SALT OBSERVED =0.0035 G-SALT/LBM-WATER, SALT MISSED =0.0014 G-SALT/LBM-WATER

PROBES   1 THRU   8      0.0459    0.0184    0.0055   -0.0004   -0.0003    0.0003    0.0003    0.0003
PROBES   9 THRU  16      0.0004    0.0000    0.0004    0.0003    0.0003    0.0001    0.0004    0.0003
PROBES  17 THRU  24      0.0003    0.0002    0.0004    0.0003    0.0005    0.0006    0.0012    0.0021
PROBES  25 THRU  32      0.0629    0.0361    0.0119    0.0039    0.0003    0.0010    0.0002    0.0008
PROBES  33 THRU  40      0.0085   -0.0002   -0.0005    0.0009    0.0000    0.0002    0.0004    0.0004
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PROBES  41 THRU  48        0.0003    -0.0001     0.0003     0.0003     0.0000     0.0004     0.0003     0.0003
PROBES  49 THRU  56        0.0662     0.0316     0.0278     0.0082     0.0025     0.0004     0.0002     0.0002
PROBES  57 THRU  64        0.0438     0.0100     0.0078     0.0003     0.0002     0.0003     0.0003     0.0021
PROBES  65 THRU  72        0.0002    -0.0015     0.0007     0.0003     0.0002     0.0003     0.0004    -0.0004
PROBES  73 THRU  80        0.0262     0.0001     0.0003     0.0004     0.0001     0.0083     0.0165     0.0329
PROBES  81 THRU  88        0.0032    -0.0001     0.0011     0.0012     0.0007     0.0003     0.0010     0.0002

   AXIAL POSITION # 21, AXIAL LOCATION =  9.50 INCHES, SALT OBSERVED =0.0031 G-SALT/LBM-WATER, SALT MISSED =0.0018 G-SALT/LBM-WATER

PROBES   1 THRU   8        0.0400     0.0166     0.0035    -0.0004    -0.0001     0.0002     0.0003     0.0003
PROBES   9 THRU  16        0.0001     0.0003     0.0002     0.0001     0.0002     0.0002     0.0004     0.0003
PROBES  17 THRU  24        0.0002     0.0003     0.0004     0.0003     0.0004     0.0005     0.0017     0.0018
PROBES  25 THRU  32        0.0409     0.0134     0.0066    -0.0001     0.0006    -0.0008     0.0002     0.0009
PROBES  33 THRU  40        0.0052     0.0000    -0.0009    -0.0006     0.0003     0.0002     0.0008     0.0004
PROBES  41 THRU  48        0.0003     0.0006     0.0005     0.0003     0.0000     0.0004     0.0004     0.0003
PROBES  49 THRU  56        0.0733     0.0709     0.0230     0.0016     0.0007    -0.0007     0.0003     0.0003
PROBES  57 THRU  64        0.0435     0.0100     0.0055     0.0004     0.0002     0.0003    -0.0001     0.0010
PROBES  65 THRU  72        0.0004    -0.0019     0.0006     0.0003     0.0004     0.0003     0.0007    -0.0003
PROBES  73 THRU  80        0.0281     0.0001     0.0004     0.0004    -0.0000     0.0087     0.0241     0.0404
PROBES  81 THRU  88        0.0042    -0.0001     0.0014     0.0012     0.0007     0.0003     0.0010     0.0003

   AXIAL POSITION # 22, AXIAL LOCATION =  9.00 INCHES, SALT OBSERVED =0.0028 G-SALT/LBM-WATER, SALT MISSED =0.0021 G-SALT/LBM-WATER

PROBES   1 THRU   8        0.0530     0.0137     0.0011    -0.0001     0.0003     0.0002     0.0003     0.0004
PROBES   9 THRU  16        0.0006     0.0001     0.0006     0.0001     0.0003     0.0001     0.0005     0.0003
PROBES  17 THRU  24        0.0002     0.0003     0.0004     0.0003     0.0004     0.0007     0.0008     0.0014
PROBES  25 THRU  32        0.0861     0.0411     0.0112     0.0027     0.0007    -0.0008     0.0003     0.0006
PROBES  33 THRU  40        0.0052    -0.0001    -0.0009    -0.0006     0.0004     0.0002     0.0007     0.0002
PROBES  41 THRU  48        0.0003     0.0006     0.0006     0.0006     0.0000     0.0008     0.0004     0.0003
PROBES  49 THRU  56        0.0401     0.0922     0.0278     0.0031     0.0011    -0.0012     0.0005     0.0005
PROBES  57 THRU  64        0.0115     0.0052     0.0071     0.0004     0.0003     0.0003    -0.0009     0.0007
PROBES  65 THRU  72        0.0002    -0.0010     0.0005     0.0003     0.0003     0.0003     0.0007    -0.0004
PROBES  73 THRU  80        0.0020     0.0001     0.0004     0.0004     0.0003     0.0031     0.0024     0.0139
PROBES  81 THRU  88        0.0003     0.0005     0.0010     0.0012     0.0008     0.0003     0.0003     0.0007

   AXIAL POSITION # 23, AXIAL LOCATION =  8.50 INCHES, SALT OBSERVED =0.0030 G-SALT/LBM-WATER, SALT MISSED =0.0019 G-SALT/LBM-WATER

PROBES   1 THRU   8        0.0589     0.0121     0.0011    -0.0000     0.0003     0.0002     0.0003     0.0005
PROBES   9 THRU  16        0.0025    -0.0000     0.0007     0.0002     0.0003     0.0001     0.0005     0.0003
PROBES  17 THRU  24        0.0003     0.0003     0.0004     0.0002     0.0005     0.0007     0.0012     0.0018
PROBES  25 THRU  32        0.1262     0.0928     0.0200     0.0091     0.0001    -0.0001     0.0002     0.0020
PROBES  33 THRU  40        0.0129    -0.0002     0.0003    -0.0006     0.0001     0.0002     0.0004     0.0002
PROBES  41 THRU  48        0.0003     0.0006     0.0005     0.0003     0.0001     0.0004     0.0002     0.0003
PROBES  49 THRU  56        0.0034     0.0630     0.0146     0.0220     0.0022    -0.0007     0.0003     0.0003
PROBES  57 THRU  64       -0.0005    -0.0009     0.0005     0.0003     0.0003     0.0003     0.0007    -0.0001
PROBES  65 THRU  72        0.0003    -0.0019     0.0006     0.0003     0.0003     0.0003     0.0006    -0.0004
PROBES  73 THRU  80       -0.0000     0.0001     0.0004     0.0004     0.0005     0.0010     0.0004     0.0054
PROBES  81 THRU  88        0.0003     0.0008     0.0008     0.0009     0.0014     0.0003     0.0004     0.0010

   AXIAL POSITION # 24, AXIAL LOCATION =  8.00 INCHES, SALT OBSERVED =0.0034 G-SALT/LBM-WATER, SALT MISSED =0.0015 G-SALT/LBM-WATER

PROBES   1 THRU   8        0.0368     0.0093     0.0004     0.0002     0.0001     0.0002     0.0003     0.0003
PROBES   9 THRU  16        0.0004     0.0001     0.0008     0.0001     0.0002     0.0001     0.0005     0.0003
PROBES  17 THRU  24        0.0002     0.0002     0.0004     0.0002     0.0005     0.0006     0.0008     0.0014
PROBES  25 THRU  32        0.0871     0.1082     0.0389     0.0147    -0.0001     0.0023     0.0002     0.0016
PROBES  33 THRU  40        0.0148     0.0003     0.0003    -0.0012    -0.0000     0.0002     0.0005     0.0006
PROBES  41 THRU  48        0.0003     0.0003     0.0003     0.0003     0.0001     0.0004     0.0001     0.0006
PROBES  49 THRU  56       -0.0007     0.0622     0.0512     0.0626     0.0082     0.0018     0.0002     0.0005
PROBES  57 THRU  64       -0.0002     0.0007     0.0030     0.0004     0.0002     0.0003     0.0021    -0.0001
PROBES  65 THRU  72        0.0003    -0.0019     0.0005     0.0003     0.0003     0.0003     0.0005    -0.0007
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PROBES  73 THRU  80        0.0001     0.0001     0.0004     0.0004     0.0005    -0.0001     0.0003     0.0007
PROBES  81 THRU  88        0.0005     0.0009     0.0008     0.0008     0.0009     0.0003     0.0004     0.0010
PROBES  89 THRU  96        0.0014     0.0003     0.0006     0.0007    -0.0010    -0.0006     0.0002    -0.0001

   AXIAL POSITION # 25, AXIAL LOCATION =  7.50 INCHES, SALT OBSERVED =0.0032 G-SALT/LBM-WATER, SALT MISSED =0.0017 G-SALT/LBM-WATER

PROBES   1 THRU   8        0.0668     0.0119     0.0008     0.0001     0.0003     0.0002     0.0003     0.0005
PROBES   9 THRU  16        0.0021    -0.0000     0.0004     0.0004     0.0004    -0.0001     0.0004     0.0002
PROBES  17 THRU  24        0.0002     0.0002     0.0004     0.0002     0.0005     0.0006     0.0012     0.0021
PROBES  25 THRU  32        0.1231     0.1232     0.0231     0.0092     0.0001     0.0026     0.0001     0.0050
PROBES  33 THRU  40        0.0158     0.0004     0.0010     0.0009    -0.0001     0.0003     0.0004     0.0001
PROBES  41 THRU  48        0.0003     0.0003     0.0003     0.0001     0.0000     0.0003     0.0000     0.0004
PROBES  49 THRU  56        0.0002     0.0580     0.0074     0.0279     0.0007    -0.0001     0.0002     0.0006
PROBES  57 THRU  64       -0.0005     0.0003     0.0003     0.0004     0.0002     0.0003     0.0014    -0.0001
PROBES  65 THRU  72        0.0003    -0.0015     0.0007     0.0003     0.0003     0.0003     0.0005    -0.0003
PROBES  73 THRU  80        0.0001     0.0001     0.0004     0.0004     0.0003     0.0010     0.0004     0.0014
PROBES  81 THRU  88        0.0005     0.0009     0.0008     0.0008     0.0009     0.0003     0.0004     0.0010

   AXIAL POSITION # 26, AXIAL LOCATION =  6.50 INCHES, SALT OBSERVED =0.0027 G-SALT/LBM-WATER, SALT MISSED =0.0022 G-SALT/LBM-WATER

PROBES   1 THRU   8        0.0159     0.0148     0.0018    -0.0000    -0.0000     0.0002     0.0005     0.0007
PROBES   9 THRU  16        0.0003     0.0004     0.0009     0.0002     0.0002     0.0001     0.0005     0.0003
PROBES  17 THRU  24        0.0002     0.0001     0.0003     0.0003     0.0004     0.0006     0.0008     0.0014
PROBES  25 THRU  32        0.0389     0.0095     0.0050     0.0007     0.0006     0.0003     0.0002     0.0001
PROBES  33 THRU  40       -0.0001    -0.0000    -0.0001     0.0004     0.0001     0.0002     0.0008     0.0002
PROBES  41 THRU  48        0.0003    -0.0009     0.0004     0.0006     0.0000     0.0008     0.0005     0.0003
PROBES  49 THRU  56        0.1002     0.0770     0.0146     0.0005    -0.0010    -0.0007     0.0003     0.0003
PROBES  57 THRU  64        0.0397    -0.0001     0.0020     0.0004     0.0003     0.0003    -0.0009    -0.0001
PROBES  65 THRU  72        0.0003    -0.0010     0.0004     0.0003     0.0002     0.0003     0.0005     0.0002
PROBES  73 THRU  80        0.0142     0.0001     0.0004     0.0004     0.0002     0.0061     0.0163     0.0487
PROBES  81 THRU  88        0.0009     0.0005     0.0010     0.0008     0.0009     0.0003     0.0003     0.0004

   AXIAL POSITION # 27, AXIAL LOCATION =  6.00 INCHES, SALT OBSERVED =0.0028 G-SALT/LBM-WATER, SALT MISSED =0.0021 G-SALT/LBM-WATER

PROBES   1 THRU   8        0.0235     0.0144     0.0009    -0.0000     0.0001     0.0002     0.0003     0.0005
PROBES   9 THRU  16        0.0003     0.0004     0.0004     0.0006     0.0002     0.0001     0.0005     0.0003
PROBES  17 THRU  24        0.0002     0.0001     0.0003     0.0003     0.0004     0.0006     0.0008     0.0014
PROBES  25 THRU  32        0.0833     0.0264     0.0066    -0.0013     0.0002     0.0010     0.0002     0.0001
PROBES  33 THRU  40       -0.0001     0.0001     0.0003    -0.0001     0.0001     0.0002     0.0010     0.0002
PROBES  41 THRU  48        0.0003     0.0006     0.0005     0.0003     0.0000     0.0004     0.0003     0.0003
PROBES  49 THRU  56        0.0662     0.0927     0.0161     0.0015     0.0003    -0.0018     0.0004     0.0003
PROBES  57 THRU  64        0.0259     0.0003     0.0015     0.0004     0.0002     0.0003     0.0003     0.0007
PROBES  65 THRU  72        0.0003    -0.0015     0.0007     0.0003     0.0002     0.0003     0.0004    -0.0003
PROBES  73 THRU  80        0.0087     0.0001     0.0003     0.0003     0.0001     0.0042     0.0088     0.0314
PROBES  81 THRU  88        0.0005     0.0005     0.0010     0.0008     0.0007     0.0003     0.0003     0.0009

   AXIAL POSITION # 28, AXIAL LOCATION =  5.75 INCHES, SALT OBSERVED =0.0028 G-SALT/LBM-WATER, SALT MISSED =0.0021 G-SALT/LBM-WATER

PROBES   1 THRU   8        0.0311     0.0200     0.0022    -0.0001    -0.0001     0.0003     0.0003     0.0007
PROBES   9 THRU  16        0.0002     0.0003     0.0002     0.0003     0.0003     0.0001     0.0004     0.0004
PROBES  17 THRU  24        0.0002     0.0001     0.0003     0.0003     0.0005     0.0006     0.0017     0.0021
PROBES  25 THRU  32        0.0603     0.0137     0.0037     0.0003     0.0002    -0.0005     0.0002     0.0001
PROBES  33 THRU  40        0.0003     0.0000     0.0003    -0.0001     0.0002     0.0002     0.0008     0.0004
PROBES  41 THRU  48        0.0003     0.0003     0.0004     0.0003     0.0000     0.0004     0.0003     0.0003
PROBES  49 THRU  56        0.0744     0.0913     0.0139     0.0009    -0.0001    -0.0001     0.0002     0.0006
PROBES  57 THRU  64        0.0147     0.0011     0.0016     0.0005     0.0003     0.0003     0.0007     0.0003
PROBES  65 THRU  72        0.0003    -0.0015     0.0007     0.0003     0.0004     0.0003     0.0005     0.0001
PROBES  73 THRU  80        0.0090     0.0001     0.0004     0.0003     0.0003     0.0059     0.0194     0.0556
PROBES  81 THRU  88        0.0008     0.0005     0.0011     0.0009     0.0011     0.0003     0.0003     0.0007
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   AXIAL POSITION # 29, AXIAL LOCATION =  5.50 INCHES, SALT OBSERVED =0.0023 G-SALT/LBM-WATER, SALT MISSED =0.0026 G-SALT/LBM-WATER

PROBES   1 THRU   8       0.0065    0.0046   -0.0000    0.0005    0.0004    0.0003    0.0003    0.0005
PROBES   9 THRU  16       0.0003    0.0002    0.0004    0.0006    0.0002    0.0001    0.0005    0.0003
PROBES  17 THRU  24       0.0003    0.0002    0.0004    0.0003    0.0004    0.0005    0.0017    0.0021
PROBES  25 THRU  32       0.0609    0.0115    0.0053    0.0017    0.0004   -0.0012    0.0002    0.0002
PROBES  33 THRU  40      -0.0009   -0.0000    0.0003   -0.0006    0.0004    0.0002    0.0004    0.0004
PROBES  41 THRU  48       0.0003    0.0003    0.0004    0.0001    0.0000    0.0003    0.0002    0.0003
PROBES  49 THRU  56       0.0704    0.0899    0.0246    0.0006   -0.0001   -0.0012    0.0001    0.0003
PROBES  57 THRU  64       0.0274    0.0022    0.0025    0.0005    0.0003    0.0003    0.0007   -0.0005
PROBES  65 THRU  72       0.0003   -0.0015    0.0007    0.0003    0.0004    0.0003    0.0005   -0.0001
PROBES  73 THRU  80       0.0090    0.0002    0.0004    0.0004    0.0003    0.0026    0.0019    0.0130
PROBES  81 THRU  88       0.0007    0.0006    0.0019    0.0011    0.0006    0.0003    0.0003    0.0006

   AXIAL POSITION # 30, AXIAL LOCATION =  5.25 INCHES, SALT OBSERVED =0.0021 G-SALT/LBM-WATER, SALT MISSED =0.0028 G-SALT/LBM-WATER

PROBES   1 THRU   8       0.0098    0.0013    0.0000    0.0005    0.0001    0.0002    0.0003    0.0005
PROBES   9 THRU  16       0.0002    0.0002    0.0004    0.0006    0.0002    0.0001    0.0004    0.0003
PROBES  17 THRU  24       0.0002    0.0003    0.0004    0.0002    0.0005    0.0006    0.0017   -0.0001
PROBES  25 THRU  32       0.1017    0.0372    0.0092   -0.0001    0.0007   -0.0005    0.0002    0.0001
PROBES  33 THRU  40      -0.0001    0.0001   -0.0017   -0.0001    0.0000    0.0002    0.0005    0.0002
PROBES  41 THRU  48       0.0003   -0.0005    0.0003    0.0003    0.0000    0.0004    0.0003    0.0003
PROBES  49 THRU  56       0.0137    0.1048    0.0181    0.0021    0.0011   -0.0001    0.0002    0.0006
PROBES  57 THRU  64       0.0008    0.0018    0.0029    0.0004    0.0002    0.0003    0.0003   -0.0001
PROBES  65 THRU  72       0.0003   -0.0015    0.0007    0.0003    0.0003    0.0003    0.0005   -0.0004
PROBES  73 THRU  80       0.0000    0.0002    0.0004    0.0003    0.0004    0.0010    0.0004    0.0009
PROBES  81 THRU  88       0.0004    0.0006    0.0017    0.0009    0.0010    0.0003    0.0003    0.0009

   AXIAL POSITION # 31, AXIAL LOCATION =  5.00 INCHES, SALT OBSERVED =0.0018 G-SALT/LBM-WATER, SALT MISSED =0.0031 G-SALT/LBM-WATER

PROBES   1 THRU   8       0.0145    0.0023    0.0002   -0.0000    0.0004    0.0002    0.0003    0.0007
PROBES   9 THRU  16       0.0002    0.0004    0.0003    0.0003    0.0002    0.0001    0.0004    0.0004
PROBES  17 THRU  24       0.0002    0.0003    0.0003    0.0002    0.0004    0.0006    0.0021    0.0003
PROBES  25 THRU  32       0.0819    0.0159    0.0053    0.0017    0.0004   -0.0012    0.0002    0.0001
PROBES  33 THRU  40      -0.0001    0.0001    0.0006    0.0009    0.0001    0.0002    0.0008    0.0003
PROBES  41 THRU  48       0.0003    0.0003    0.0004    0.0001    0.0000    0.0004    0.0002    0.0003
PROBES  49 THRU  56       0.0001    0.1059    0.0196    0.0008    0.0022   -0.0001    0.0002    0.0005
PROBES  57 THRU  64      -0.0001    0.0011    0.0027    0.0003    0.0002    0.0003    0.0007    0.0003
PROBES  65 THRU  72       0.0003   -0.0015    0.0007    0.0003    0.0003    0.0002    0.0005   -0.0001
PROBES  73 THRU  80       0.0002    0.0001    0.0003    0.0003    0.0002   -0.0001    0.0004    0.0009
PROBES  81 THRU  88       0.0004    0.0006    0.0013    0.0011    0.0005    0.0003    0.0004    0.0011

   AXIAL POSITION # 32, AXIAL LOCATION =  4.75 INCHES, SALT OBSERVED =0.0017 G-SALT/LBM-WATER, SALT MISSED =0.0032 G-SALT/LBM-WATER

PROBES   1 THRU   8       0.0192    0.0026    0.0000    0.0003    0.0001    0.0002    0.0003    0.0005
PROBES   9 THRU  16       0.0002    0.0004    0.0004    0.0004    0.0004   -0.0001    0.0004    0.0003
PROBES  17 THRU  24       0.0002    0.0003    0.0003    0.0002    0.0005    0.0006    0.0017    0.0021
PROBES  25 THRU  32       0.1061    0.0330    0.0068    0.0010    0.0002    0.0010    0.0003    0.0001
PROBES  33 THRU  40      -0.0001   -0.0000    0.0003   -0.0001   -0.0000    0.0002    0.0008    0.0004
PROBES  41 THRU  48       0.0003    0.0006    0.0005    0.0004    0.0000    0.0007    0.0001    0.0003
PROBES  49 THRU  56      -0.0007    0.0642    0.0005    0.0004    0.0007   -0.0001    0.0002    0.0006
PROBES  57 THRU  64       0.0002   -0.0005    0.0002    0.0005    0.0003    0.0003    0.0007   -0.0005
PROBES  65 THRU  72       0.0003   -0.0015    0.0007    0.0003    0.0004    0.0003    0.0005   -0.0001
PROBES  73 THRU  80       0.0004    0.0002    0.0004    0.0004    0.0003    0.0010    0.0004    0.0013
PROBES  81 THRU  88       0.0004    0.0006    0.0013    0.0008    0.0007    0.0003    0.0005    0.0008

   AXIAL POSITION # 33, AXIAL LOCATION =  4.50 INCHES, SALT OBSERVED =0.0017 G-SALT/LBM-WATER, SALT MISSED =0.0032 G-SALT/LBM-WATER

PROBES   1 THRU   8       0.0222    0.0020    0.0002    0.0004    0.0003    0.0003    0.0005    0.0007
PROBES   9 THRU  16       0.0002    0.0003    0.0003    0.0003    0.0004   -0.0001    0.0004    0.0003
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PROBES  17 THRU  24      0.0002    0.0003    0.0003    0.0002    0.0005    0.0006    0.0017   -0.0005
PROBES  25 THRU  32      0.0959    0.0364    0.0079    0.0007    0.0007   -0.0008    0.0002    0.0001
PROBES  33 THRU  40      0.0018   -0.0001    0.0010   -0.0012   -0.0000    0.0003    0.0006    0.0002
PROBES  41 THRU  48      0.0003    0.0013    0.0004    0.0002    0.0001    0.0004    0.0002    0.0003
PROBES  49 THRU  56     -0.0007    0.0665    0.0010    0.0033    0.0007    0.0004    0.0002    0.0002
PROBES  57 THRU  64      0.0002   -0.0005    0.0002    0.0006    0.0003    0.0003    0.0007    0.0003
PROBES  65 THRU  72      0.0003   -0.0015    0.0007    0.0003    0.0004    0.0003    0.0005   -0.0001
PROBES  73 THRU  80      0.0003    0.0002    0.0004    0.0004    0.0003    0.0003    0.0006    0.0009
PROBES  81 THRU  88      0.0005    0.0009    0.0016    0.0008    0.0009    0.0003    0.0004    0.0009

   AXIAL POSITION # 34, AXIAL LOCATION =  4.25 INCHES, SALT OBSERVED =0.0024 G-SALT/LBM-WATER, SALT MISSED =0.0025 G-SALT/LBM-WATER

PROBES   1 THRU   8      0.0207    0.0010    0.0003    0.0005    0.0002    0.0002    0.0004    0.0004
PROBES   9 THRU  16      0.0001    0.0003    0.0005    0.0001    0.0004   -0.0001    0.0004    0.0003
PROBES  17 THRU  24      0.0002    0.0003    0.0004    0.0002    0.0004    0.0005    0.0021   -0.0001
PROBES  25 THRU  32      0.1469    0.1110    0.0157    0.0030    0.0004    0.0013    0.0001    0.0001
PROBES  33 THRU  40      0.0025   -0.0001   -0.0017   -0.0006    0.0000    0.0002    0.0004    0.0004
PROBES  41 THRU  48      0.0003    0.0010    0.0003    0.0002    0.0000    0.0003    0.0000    0.0004
PROBES  49 THRU  56      0.0000    0.0372    0.0022    0.0150   -0.0001   -0.0012    0.0001    0.0003
PROBES  57 THRU  64      0.0006   -0.0022    0.0002    0.0004    0.0002    0.0003    0.0014   -0.0001
PROBES  65 THRU  72      0.0003   -0.0019    0.0006    0.0003    0.0003    0.0003    0.0005   -0.0004
PROBES  73 THRU  80      0.0002    0.0002    0.0005    0.0004    0.0007   -0.0005    0.0006    0.0002
PROBES  81 THRU  88      0.0005    0.0008    0.0007    0.0014    0.0007    0.0003    0.0004    0.0011

   AXIAL POSITION # 35, AXIAL LOCATION =  4.00 INCHES, SALT OBSERVED =0.0023 G-SALT/LBM-WATER, SALT MISSED =0.0026 G-SALT/LBM-WATER

PROBES   1 THRU   8      0.0109    0.0013    0.0001    0.0002    0.0003    0.0002    0.0003    0.0004
PROBES   9 THRU  16      0.0002    0.0004    0.0009    0.0003    0.0004   -0.0000    0.0003    0.0003
PROBES  17 THRU  24      0.0002    0.0002    0.0004    0.0003    0.0005    0.0006    0.0008    0.0014
PROBES  25 THRU  32      0.1170    0.1068    0.0151    0.0054    0.0004    0.0026    0.0002    0.0002
PROBES  33 THRU  40      0.0021    0.0001   -0.0013   -0.0001   -0.0001    0.0002    0.0008    0.0004
PROBES  41 THRU  48      0.0003    0.0003    0.0003    0.0001    0.0000    0.0007   -0.0001    0.0006
PROBES  49 THRU  56     -0.0001    0.0310    0.0094    0.0365    0.0015   -0.0018    0.0005    0.0004
PROBES  57 THRU  64      0.0006   -0.0022    0.0002    0.0004    0.0002    0.0003    0.0018   -0.0009
PROBES  65 THRU  72      0.0003   -0.0019    0.0006    0.0003    0.0003    0.0003    0.0005   -0.0007
PROBES  73 THRU  80      0.0002    0.0002    0.0005    0.0004    0.0007   -0.0005    0.0006    0.0004
PROBES  81 THRU  88      0.0005    0.0008    0.0008    0.0008    0.0009    0.0003    0.0004    0.0012

   AXIAL POSITION # 36, AXIAL LOCATION =  3.75 INCHES, SALT OBSERVED =0.0020 G-SALT/LBM-WATER, SALT MISSED =0.0029 G-SALT/LBM-WATER

PROBES   1 THRU   8      0.0222    0.0017    0.0000    0.0003    0.0003    0.0002    0.0003    0.0005
PROBES   9 THRU  16      0.0001    0.0003    0.0002    0.0003    0.0002    0.0001    0.0005    0.0003
PROBES  17 THRU  24      0.0002    0.0001    0.0003    0.0003    0.0004    0.0006    0.0008    0.0014
PROBES  25 THRU  32      0.1479    0.0676    0.0095    0.0010    0.0002    0.0023    0.0001    0.0001
PROBES  33 THRU  40      0.0018   -0.0001    0.0003   -0.0006    0.0001    0.0002    0.0007    0.0004
PROBES  41 THRU  48      0.0003    0.0006    0.0003    0.0002    0.0000    0.0003    0.0000    0.0004
PROBES  49 THRU  56     -0.0005    0.0385    0.0005    0.0016    0.0003   -0.0001    0.0003    0.0002
PROBES  57 THRU  64      0.0006   -0.0022    0.0002    0.0004    0.0003    0.0003   -0.0001   -0.0001
PROBES  65 THRU  72      0.0003   -0.0010    0.0005    0.0003    0.0004    0.0003    0.0007   -0.0005
PROBES  73 THRU  80      0.0002    0.0002    0.0005    0.0004    0.0007   -0.0005    0.0006    0.0002

   AXIAL POSITION # 37, AXIAL LOCATION =  3.50 INCHES, SALT OBSERVED =0.0017 G-SALT/LBM-WATER, SALT MISSED =0.0032 G-SALT/LBM-WATER

PROBES   1 THRU   8      0.0288    0.0006    0.0003    0.0005    0.0002    0.0002    0.0004    0.0004
PROBES   9 THRU  16      0.0001    0.0003    0.0003    0.0003    0.0004   -0.0000    0.0004    0.0002
PROBES  17 THRU  24      0.0002    0.0001    0.0004    0.0002    0.0005    0.0007    0.0008    0.0014
PROBES  25 THRU  32      0.1304    0.0477    0.0055    0.0014    0.0003    0.0010    0.0002    0.0002
PROBES  33 THRU  40      0.0007    0.0001    0.0003   -0.0006    0.0001    0.0002    0.0007    0.0004
PROBES  41 THRU  48      0.0003    0.0006    0.0005    0.0004    0.0001    0.0004    0.0003    0.0003
PROBES  49 THRU  56     -0.0002    0.0297    0.0004    0.0001    0.0003   -0.0007    0.0004    0.0003
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PROBES  57 THRU  64       0.0006    -0.0022     0.0002     0.0005     0.0003     0.0003    -0.0001    -0.0001
PROBES  65 THRU  72       0.0003    -0.0010     0.0005     0.0003     0.0004     0.0003     0.0007    -0.0005
PROBES  73 THRU  80       0.0004     0.0002     0.0005     0.0004     0.0007    -0.0005     0.0006     0.0002
PROBES  81 THRU  88       0.0006     0.0008     0.0008     0.0008     0.0009     0.0003     0.0004     0.0011

   AXIAL POSITION # 38, AXIAL LOCATION =  3.25 INCHES, SALT OBSERVED =0.0014 G-SALT/LBM-WATER, SALT MISSED =0.0035 G-SALT/LBM-WATER

PROBES   1 THRU   8       0.0442     0.0041     0.0003     0.0002     0.0001     0.0002     0.0002     0.0004
PROBES   9 THRU  16       0.0001     0.0002     0.0003     0.0001     0.0003     0.0001     0.0005     0.0003
PROBES  17 THRU  24       0.0002     0.0001     0.0003     0.0003     0.0004     0.0007     0.0008     0.0014
PROBES  25 THRU  32       0.1080     0.0028     0.0023     0.0003     0.0003     0.0006     0.0002     0.0002
PROBES  33 THRU  40      -0.0001     0.0002    -0.0013    -0.0012     0.0003     0.0002     0.0005     0.0002
PROBES  41 THRU  48       0.0003    -0.0001     0.0005     0.0003     0.0000     0.0005     0.0005     0.0003
PROBES  49 THRU  56      -0.0001     0.0372     0.0003     0.0001     0.0007    -0.0012     0.0001     0.0005
PROBES  57 THRU  64       0.0008    -0.0018     0.0002     0.0004     0.0003     0.0003     0.0003    -0.0001
PROBES  65 THRU  72       0.0003    -0.0010     0.0005     0.0003     0.0003     0.0003     0.0005    -0.0001
PROBES  73 THRU  80       0.0004     0.0002     0.0005     0.0004     0.0007    -0.0005     0.0006     0.0003
PROBES  81 THRU  88       0.0006     0.0010     0.0009     0.0011     0.0006     0.0003     0.0004     0.0012
PROBES  89 THRU  96       0.0014     0.0004     0.0008     0.0010    -0.0006     0.0008     0.0002     0.0004

   AXIAL POSITION # 39, AXIAL LOCATION =  3.00 INCHES, SALT OBSERVED =0.0011 G-SALT/LBM-WATER, SALT MISSED =0.0038 G-SALT/LBM-WATER

PROBES   1 THRU   8       0.0245     0.0006     0.0003     0.0007     0.0001     0.0002     0.0002     0.0004
PROBES   9 THRU  16       0.0001     0.0002     0.0004     0.0006     0.0003     0.0001     0.0005     0.0003
PROBES  17 THRU  24       0.0002     0.0002     0.0004     0.0002     0.0004     0.0007     0.0008     0.0014
PROBES  25 THRU  32       0.0567    -0.0002     0.0032     0.0007     0.0007     0.0013     0.0002     0.0001
PROBES  33 THRU  40      -0.0005     0.0001    -0.0005    -0.0006     0.0003     0.0002     0.0004     0.0005
PROBES  41 THRU  48       0.0003    -0.0001     0.0004     0.0003     0.0000     0.0005     0.0003     0.0003
PROBES  49 THRU  56      -0.0007     0.0665     0.0003     0.0001     0.0015    -0.0018     0.0001     0.0005
PROBES  57 THRU  64       0.0008    -0.0018     0.0001     0.0004     0.0003     0.0003    -0.0005    -0.0009
PROBES  65 THRU  72       0.0004    -0.0019     0.0006     0.0004     0.0004     0.0003     0.0008    -0.0000
PROBES  73 THRU  80       0.0004     0.0002     0.0005     0.0004     0.0007    -0.0005     0.0006     0.0002
PROBES  81 THRU  88       0.0005     0.0008     0.0008     0.0008     0.0009     0.0003     0.0004     0.0011

   AXIAL POSITION # 40, AXIAL LOCATION =  2.75 INCHES, SALT OBSERVED =0.0005 G-SALT/LBM-WATER, SALT MISSED =0.0044 G-SALT/LBM-WATER

PROBES   1 THRU   8       0.0004     0.0033     0.0001     0.0004     0.0001     0.0002     0.0003     0.0004
PROBES   9 THRU  16       0.0003     0.0004     0.0006     0.0003     0.0004    -0.0000     0.0003     0.0003
PROBES  17 THRU  24       0.0002     0.0003     0.0003     0.0002     0.0004     0.0006     0.0008     0.0014
PROBES  25 THRU  32       0.0003     0.0002     0.0020    -0.0005     0.0004     0.0003     0.0003     0.0001
PROBES  33 THRU  40      -0.0018     0.0000     0.0003    -0.0006     0.0007     0.0002     0.0007     0.0004
PROBES  41 THRU  48       0.0003    -0.0001     0.0004     0.0006     0.0000     0.0008     0.0006     0.0003
PROBES  49 THRU  56       0.0052     0.0330     0.0003     0.0003    -0.0001    -0.0018     0.0001     0.0005
PROBES  57 THRU  64       0.0003    -0.0013     0.0002     0.0006     0.0003     0.0003    -0.0005    -0.0001
PROBES  65 THRU  72       0.0003    -0.0010     0.0005     0.0004     0.0005     0.0003     0.0007     0.0004
PROBES  73 THRU  80       0.0004     0.0002     0.0005     0.0004     0.0007     0.0003     0.0005     0.0092
PROBES  81 THRU  88       0.0004     0.0008     0.0008     0.0008     0.0009     0.0003     0.0004     0.0011

   AXIAL POSITION # 41, AXIAL LOCATION =  2.50 INCHES, SALT OBSERVED =0.0006 G-SALT/LBM-WATER, SALT MISSED =0.0043 G-SALT/LBM-WATER

PROBES   1 THRU   8       0.0004    -0.0001    -0.0001     0.0006     0.0001     0.0002     0.0003     0.0005
PROBES   9 THRU  16       0.0004     0.0004     0.0006     0.0003     0.0005     0.0001     0.0005     0.0003
PROBES  17 THRU  24       0.0002     0.0003     0.0003     0.0002     0.0004     0.0005     0.0004     0.0018
PROBES  25 THRU  32       0.0003     0.0001     0.0016    -0.0021     0.0004    -0.0001     0.0002     0.0001
PROBES  33 THRU  40      -0.0013     0.0003    -0.0021    -0.0012     0.0005     0.0002     0.0005     0.0001
PROBES  41 THRU  48       0.0003    -0.0001     0.0004     0.0006     0.0000     0.0005     0.0006     0.0003
PROBES  49 THRU  56       0.0072     0.0669     0.0004     0.0003    -0.0001    -0.0007     0.0005     0.0005
PROBES  57 THRU  64       0.0005    -0.0022     0.0002     0.0005     0.0003     0.0003    -0.0009    -0.0009
PROBES  65 THRU  72       0.0004    -0.0019     0.0007     0.0005     0.0004     0.0002     0.0004    -0.0000
PROBES  73 THRU  80       0.0001     0.0001     0.0005     0.0003     0.0005     0.0010     0.0005     0.0045
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PROBES  81 THRU  88         0.0004     0.0008     0.0010     0.0008     0.0009     0.0003     0.0005     0.0006

   AXIAL POSITION # 42, AXIAL LOCATION =  2.25 INCHES, SALT OBSERVED =0.0006 G-SALT/LBM-WATER, SALT MISSED =0.0043 G-SALT/LBM-WATER

PROBES   1 THRU   8         0.0004     0.0017    -0.0000     0.0001     0.0003     0.0002     0.0003     0.0005
PROBES   9 THRU  16         0.0004     0.0004     0.0006     0.0003     0.0005     0.0002     0.0004     0.0003
PROBES  17 THRU  24         0.0002     0.0003     0.0003     0.0002     0.0005     0.0005     0.0004     0.0018
PROBES  25 THRU  32         0.0003     0.0001     0.0020    -0.0005     0.0004    -0.0016     0.0003     0.0001
PROBES  33 THRU  40        -0.0013     0.0001    -0.0001    -0.0001     0.0002     0.0002     0.0005     0.0001
PROBES  41 THRU  48         0.0003    -0.0001     0.0004     0.0006     0.0000     0.0005     0.0006     0.0003
PROBES  49 THRU  56         0.0031     0.0657     0.0004     0.0002     0.0007    -0.0018     0.0002     0.0004
PROBES  57 THRU  64         0.0002    -0.0001     0.0001     0.0005     0.0003     0.0003    -0.0009    -0.0014
PROBES  65 THRU  72         0.0004    -0.0019     0.0007     0.0004     0.0003     0.0003     0.0008     0.0002
PROBES  73 THRU  80         0.0001     0.0002     0.0006     0.0004     0.0006     0.0003     0.0004     0.0012
PROBES  81 THRU  88         0.0005     0.0010     0.0011     0.0011     0.0006     0.0003     0.0004     0.0010

   AXIAL POSITION # 43, AXIAL LOCATION =  2.00 INCHES, SALT OBSERVED =0.0004 G-SALT/LBM-WATER, SALT MISSED =0.0045 G-SALT/LBM-WATER

PROBES   1 THRU   8         0.0004     0.0023     0.0001     0.0001     0.0002     0.0002     0.0006     0.0009
PROBES   9 THRU  16         0.0005     0.0004     0.0009     0.0003     0.0004    -0.0000     0.0003     0.0003
PROBES  17 THRU  24         0.0001     0.0002     0.0003     0.0002     0.0004     0.0006     0.0008     0.0014
PROBES  25 THRU  32         0.0003     0.0001     0.0013    -0.0013     0.0004    -0.0016     0.0003     0.0001
PROBES  33 THRU  40        -0.0013     0.0003    -0.0017    -0.0006     0.0004     0.0002     0.0007     0.0004
PROBES  41 THRU  48         0.0003    -0.0001     0.0004     0.0006     0.0000     0.0008     0.0006     0.0003
PROBES  49 THRU  56         0.0048     0.0216     0.0004     0.0003     0.0007    -0.0012     0.0002     0.0003
PROBES  57 THRU  64        -0.0000    -0.0018     0.0002     0.0004     0.0003     0.0003    -0.0009    -0.0009
PROBES  65 THRU  72         0.0004    -0.0019     0.0007     0.0005     0.0003     0.0002     0.0005     0.0001
PROBES  73 THRU  80         0.0001     0.0001     0.0005     0.0003     0.0005     0.0019     0.0005     0.0177
PROBES  81 THRU  88         0.0004     0.0008     0.0009     0.0009     0.0012     0.0003     0.0004     0.0010

   AXIAL POSITION # 44, AXIAL LOCATION =  1.75 INCHES, SALT OBSERVED =0.0004 G-SALT/LBM-WATER, SALT MISSED =0.0045 G-SALT/LBM-WATER

PROBES   1 THRU   8         0.0004     0.0041     0.0001     0.0002     0.0003     0.0002     0.0003     0.0004
PROBES   9 THRU  16         0.0004     0.0004     0.0006     0.0003     0.0005    -0.0001     0.0004     0.0003
PROBES  17 THRU  24         0.0002     0.0003     0.0004     0.0002     0.0005     0.0005     0.0012     0.0010
PROBES  25 THRU  32         0.0004     0.0003    -0.0001    -0.0013     0.0004    -0.0020     0.0004     0.0002
PROBES  33 THRU  40        -0.0018     0.0001    -0.0026    -0.0012     0.0006     0.0002     0.0005     0.0001
PROBES  41 THRU  48         0.0003    -0.0001     0.0005     0.0007     0.0000     0.0004     0.0005     0.0003
PROBES  49 THRU  56         0.0048     0.0141     0.0003     0.0003    -0.0001    -0.0007     0.0005     0.0005
PROBES  57 THRU  64         0.0005    -0.0022     0.0002     0.0004     0.0003     0.0003    -0.0009    -0.0009
PROBES  65 THRU  72         0.0004    -0.0019     0.0007     0.0005     0.0003     0.0003     0.0006    -0.0000
PROBES  73 THRU  80         0.0001     0.0001     0.0005     0.0003     0.0005     0.0019     0.0005     0.0192
PROBES  81 THRU  88         0.0005     0.0010     0.0010     0.0011     0.0006     0.0003     0.0004     0.0010

   AXIAL POSITION # 45, AXIAL LOCATION =  1.50 INCHES, SALT OBSERVED =0.0004 G-SALT/LBM-WATER, SALT MISSED =0.0045 G-SALT/LBM-WATER

PROBES   1 THRU   8         0.0004    -0.0001    -0.0001     0.0001     0.0003     0.0002     0.0003     0.0005
PROBES   9 THRU  16         0.0004     0.0004     0.0006     0.0003     0.0005    -0.0001     0.0005     0.0004
PROBES  17 THRU  24         0.0002     0.0001     0.0003     0.0003     0.0004     0.0005     0.0004     0.0018
PROBES  25 THRU  32         0.0004     0.0003    -0.0005    -0.0013     0.0004    -0.0016     0.0003     0.0001
PROBES  33 THRU  40        -0.0013     0.0003    -0.0021    -0.0012     0.0001     0.0002     0.0009     0.0003
PROBES  41 THRU  48         0.0003    -0.0009     0.0005     0.0007     0.0000     0.0004     0.0005     0.0003
PROBES  49 THRU  56        -0.0008     0.0491     0.0003     0.0002     0.0003    -0.0012     0.0002     0.0004
PROBES  57 THRU  64         0.0006    -0.0018     0.0002     0.0007     0.0004     0.0003    -0.0009    -0.0014
PROBES  65 THRU  72         0.0004    -0.0019     0.0007     0.0004     0.0003     0.0002     0.0005    -0.0000
PROBES  73 THRU  80         0.0001     0.0002     0.0005     0.0003     0.0006    -0.0001     0.0005     0.0001
PROBES  81 THRU  88         0.0005     0.0009     0.0009     0.0009     0.0012     0.0003     0.0004     0.0010

   AXIAL POSITION # 46, AXIAL LOCATION =  1.25 INCHES, SALT OBSERVED =0.0003 G-SALT/LBM-WATER, SALT MISSED =0.0046 G-SALT/LBM-WATER
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PROBES   1 THRU   8      0.0003   -0.0025   -0.0001    0.0002    0.0005    0.0004    0.0004    0.0005
PROBES   9 THRU  16      0.0005    0.0004    0.0007    0.0004    0.0003   -0.0001    0.0006    0.0004
PROBES  17 THRU  24      0.0002    0.0002    0.0004    0.0003    0.0005    0.0003    0.0017    0.0010
PROBES  25 THRU  32      0.0003    0.0001    0.0016   -0.0013    0.0004   -0.0024    0.0003    0.0002
PROBES  33 THRU  40     -0.0022    0.0001   -0.0030   -0.0023    0.0002    0.0002    0.0005    0.0003
PROBES  41 THRU  48      0.0003   -0.0017    0.0005    0.0007    0.0000    0.0005    0.0009    0.0004
PROBES  49 THRU  56     -0.0002    0.0434    0.0004    0.0003   -0.0001   -0.0007    0.0006    0.0004
PROBES  57 THRU  64      0.0006   -0.0027    0.0002    0.0007    0.0004    0.0003   -0.0005   -0.0009
PROBES  65 THRU  72      0.0004   -0.0019    0.0007    0.0004    0.0003    0.0003    0.0008    0.0002
PROBES  73 THRU  80      0.0001    0.0002    0.0006    0.0004    0.0006   -0.0001    0.0005    0.0002
PROBES  81 THRU  88      0.0005    0.0008    0.0009    0.0011    0.0006    0.0003    0.0004    0.0010

   AXIAL POSITION # 47, AXIAL LOCATION =  1.00 INCHES, SALT OBSERVED =0.0007 G-SALT/LBM-WATER, SALT MISSED =0.0042 G-SALT/LBM-WATER

PROBES   1 THRU   8      0.0004    0.0003    0.0000    0.0005    0.0004    0.0003    0.0003    0.0004
PROBES   9 THRU  16      0.0004    0.0004    0.0007    0.0004    0.0003   -0.0001    0.0005    0.0004
PROBES  17 THRU  24      0.0002    0.0001    0.0003    0.0002    0.0005    0.0003    0.0017    0.0010
PROBES  25 THRU  32      0.0002    0.0001    0.0026   -0.0009    0.0004   -0.0024    0.0003    0.0001
PROBES  33 THRU  40     -0.0013    0.0001   -0.0001   -0.0001    0.0002    0.0002    0.0005    0.0003
PROBES  41 THRU  48      0.0003   -0.0009    0.0005    0.0007    0.0000    0.0005    0.0008    0.0004
PROBES  49 THRU  56      0.0003    0.0846    0.0003    0.0001    0.0003   -0.0012    0.0002    0.0004
PROBES  57 THRU  64      0.0007   -0.0018    0.0002    0.0005    0.0003    0.0003   -0.0009   -0.0014
PROBES  65 THRU  72      0.0004   -0.0024    0.0008    0.0004    0.0004    0.0002    0.0005   -0.0000
PROBES  73 THRU  80      0.0001    0.0002    0.0005    0.0003    0.0006    0.0003    0.0004    0.0003
PROBES  81 THRU  88      0.0005    0.0009    0.0008    0.0009    0.0012    0.0003    0.0004    0.0010


**THE FOLLOWING PROBES HAVE FAILED AND WERE NOT
  INCLUDED IN THE MASS BALANCE CALCULATIONS:



**AXIAL CONCENTRATION PROFILES PLOTTED FOR THE FOLLOWING SUBCHANNELS:
           1          2          3          4
          25         26         27         28
          73         74         75         76
          49         50         51         52
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A5.2. Central Injection Mixing Data (gm/lbm)

Injection Subchannel: 50

Reynolds Number: 11410

Flow Rate: 185 gpm

Injection Concentration: 25 gm/lbm

Injection Flow Rate: 0.31 lbm/min

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**SALT CONCENTRATIONS FOLLOW:

   AXIAL POSITION #  1, AXIAL LOCATION = 42.00 INCHES, SALT OBSERVED =0.0027 G-SALT/LBM-WATER, SALT MISSED =0.0024 G-SALT/LBM-WATER

PROBES   1 THRU   8        0.0094     0.0134     0.0077     0.0028     0.0027     0.0028     0.0005     0.0002
PROBES   9 THRU  16        0.0038     0.0038     0.0032     0.0020     0.0012     0.0011    -0.0001     0.0023
PROBES  17 THRU  24        0.0017     0.0006     0.0006     0.0004     0.0009     0.0007     0.0059     0.0051
PROBES  25 THRU  32        0.0086     0.0046     0.0118     0.0109     0.0017     0.0053     0.0002     0.0048
PROBES  33 THRU  40        0.0126     0.0030     0.0099     0.0095    -0.0001     0.0030     0.0022     0.0008
PROBES  41 THRU  48        0.0028     0.0074     0.0003    -0.0005     0.0013     0.0004    -0.0006     0.0005
PROBES  49 THRU  56        0.0069     0.0141     0.0070     0.0045     0.0120     0.0114     0.0008    -0.0001
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PROBES  57 THRU  64      0.0052    0.0124    0.0058    0.0025    0.0017    0.0023    0.0034    0.0111
PROBES  65 THRU  72      0.0022    0.0081    0.0004    0.0003    0.0012    0.0009    0.0004   -0.0007
PROBES  73 THRU  80      0.0072    0.0007    0.0005    0.0031    0.0023    0.0126    0.0083    0.0090
PROBES  81 THRU  88      0.0050    0.0019    0.0010   -0.0002    0.0002    0.0033    0.0032    0.0016
PROBES  89 THRU  96      0.0011    0.0014    0.0002   -0.0004    0.0097    0.0099    0.0003    0.0085
PROBES  97 THRU 104      0.0017    0.0004    0.0000   -0.0001    0.0023   -0.0002    0.0020    0.0007
PROBES 105 THRU 112      0.0003    0.0003    0.0030    0.0002    0.0003    0.0003    0.0000    0.0009
PROBES 113 THRU 120      0.0006   -0.0007   -0.0003   -0.0013    0.0003    0.0001    0.0040    0.0011
PROBES 121 THRU 126     -0.0001    0.0001   -0.0007    0.0002    0.0009   -0.0004

   AXIAL POSITION #  2, AXIAL LOCATION = 36.00 INCHES, SALT OBSERVED =0.0028 G-SALT/LBM-WATER, SALT MISSED =0.0022 G-SALT/LBM-WATER

PROBES   1 THRU   8      0.0115    0.0131    0.0052    0.0015    0.0001    0.0006   -0.0001    0.0003
PROBES   9 THRU  16      0.0048    0.0035    0.0013    0.0000   -0.0000   -0.0001    0.0001    0.0021
PROBES  17 THRU  24      0.0008    0.0001    0.0004    0.0004    0.0005    0.0000    0.0033    0.0021
PROBES  25 THRU  32      0.0105    0.0109    0.0150    0.0141    0.0067    0.0097    0.0026    0.0090
PROBES  33 THRU  40      0.0142    0.0084    0.0138    0.0137    0.0008    0.0041    0.0032    0.0037
PROBES  41 THRU  48      0.0067    0.0102    0.0013   -0.0003    0.0022    0.0013   -0.0002    0.0009
PROBES  49 THRU  56      0.0052    0.0152    0.0125    0.0097    0.0145    0.0144    0.0038    0.0006
PROBES  57 THRU  64      0.0050    0.0130    0.0085    0.0045    0.0032    0.0048    0.0073    0.0103
PROBES  65 THRU  72      0.0023    0.0102    0.0006    0.0010    0.0007    0.0011    0.0003   -0.0007
PROBES  73 THRU  80      0.0053    0.0001    0.0000    0.0008    0.0002    0.0102    0.0045    0.0061
PROBES  81 THRU  88      0.0030   -0.0002   -0.0004   -0.0003    0.0003    0.0020    0.0018    0.0002
PROBES  89 THRU  96      0.0001    0.0002   -0.0003   -0.0008    0.0061    0.0057   -0.0003    0.0035
PROBES  97 THRU 104     -0.0016    0.0003    0.0001   -0.0001   -0.0005    0.0002    0.0032    0.0021
PROBES 105 THRU 112      0.0011    0.0003    0.0055    0.0006   -0.0000    0.0009    0.0004    0.0019
PROBES 113 THRU 120      0.0012   -0.0011   -0.0001   -0.0005    0.0004    0.0005    0.0017   -0.0037
PROBES 121 THRU 126      0.0004    0.0000   -0.0002    0.0008    0.0022    0.0000

   AXIAL POSITION #  3, AXIAL LOCATION = 30.00 INCHES, SALT OBSERVED =0.0028 G-SALT/LBM-WATER, SALT MISSED =0.0022 G-SALT/LBM-WATER

PROBES   1 THRU   8      0.0152    0.0154    0.0103    0.0049    0.0042    0.0022    0.0003    0.0001
PROBES   9 THRU  16      0.0049    0.0064    0.0032    0.0019    0.0010    0.0006   -0.0001    0.0027
PROBES  17 THRU  24      0.0017    0.0002    0.0004    0.0002    0.0003    0.0001    0.0043    0.0031
PROBES  25 THRU  32      0.0128    0.0080    0.0126    0.0113    0.0018    0.0048    0.0001    0.0070
PROBES  33 THRU  40      0.0134    0.0033    0.0099    0.0085   -0.0001    0.0029    0.0021    0.0009
PROBES  41 THRU  48      0.0022    0.0061    0.0001   -0.0006    0.0010    0.0001   -0.0004    0.0004
PROBES  49 THRU  56      0.0121    0.0158    0.0102    0.0066    0.0125    0.0115    0.0003    0.0000
PROBES  57 THRU  64      0.0090    0.0137    0.0092    0.0034    0.0013    0.0023    0.0021    0.0113
PROBES  65 THRU  72      0.0027    0.0081    0.0003    0.0004    0.0013    0.0007    0.0002   -0.0004
PROBES  73 THRU  80      0.0113    0.0003    0.0002    0.0024    0.0027    0.0138    0.0107    0.0128
PROBES  81 THRU  88      0.0075    0.0030    0.0011   -0.0004   -0.0001    0.0041    0.0037    0.0019
PROBES  89 THRU  96      0.0009    0.0011   -0.0002   -0.0003    0.0083    0.0094    0.0001    0.0069
PROBES  97 THRU 104      0.0004    0.0003    0.0000   -0.0001    0.0006    0.0001   -0.0001   -0.0005
PROBES 105 THRU 112      0.0004    0.0004    0.0017    0.0003    0.0005    0.0002   -0.0000    0.0008
PROBES 113 THRU 120      0.0006   -0.0006   -0.0004   -0.0010    0.0004    0.0001    0.0044   -0.0014
PROBES 121 THRU 126      0.0004    0.0000   -0.0005    0.0003    0.0009   -0.0001

   AXIAL POSITION #  4, AXIAL LOCATION = 24.00 INCHES, SALT OBSERVED =0.0037 G-SALT/LBM-WATER, SALT MISSED =0.0013 G-SALT/LBM-WATER

PROBES   1 THRU   8      0.0188    0.0147    0.0070    0.0012    0.0003    0.0009   -0.0002    0.0002
PROBES   9 THRU  16      0.0090    0.0068    0.0022    0.0006    0.0000   -0.0000   -0.0001    0.0031
PROBES  17 THRU  24      0.0014    0.0001    0.0003    0.0003    0.0006    0.0001    0.0043    0.0031
PROBES  25 THRU  32      0.0220    0.0198    0.0198    0.0161    0.0102    0.0093    0.0017    0.0172
PROBES  33 THRU  40      0.0180    0.0152    0.0155    0.0145    0.0015    0.0057    0.0060    0.0089
PROBES  41 THRU  48      0.0106    0.0116    0.0017   -0.0001    0.0029    0.0020    0.0001    0.0014
PROBES  49 THRU  56      0.0081    0.0191    0.0181    0.0142    0.0156    0.0148    0.0036    0.0002
PROBES  57 THRU  64      0.0071    0.0134    0.0094    0.0038    0.0023    0.0034    0.0053    0.0093
PROBES  65 THRU  72      0.0012    0.0066    0.0003    0.0005    0.0004    0.0007    0.0002   -0.0008
PROBES  73 THRU  80      0.0064    0.0002    0.0000    0.0007    0.0000    0.0105    0.0064    0.0084
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PROBES  81 THRU  88      0.0027    -0.0003    -0.0004    -0.0003     0.0001     0.0013     0.0013     0.0002
PROBES  89 THRU  96      0.0002     0.0002    -0.0002    -0.0007     0.0052     0.0048    -0.0003     0.0032
PROBES  97 THRU 104      0.0030     0.0004     0.0000    -0.0001     0.0032    -0.0002     0.0032     0.0025
PROBES 105 THRU 112      0.0011     0.0003     0.0058     0.0003    -0.0001     0.0005     0.0002     0.0013
PROBES 113 THRU 120      0.0010    -0.0006    -0.0002    -0.0011     0.0003     0.0002     0.0044     0.0007
PROBES 121 THRU 126      0.0001     0.0001     0.0003     0.0010     0.0020    -0.0005

   AXIAL POSITION #  5, AXIAL LOCATION = 23.00 INCHES, SALT OBSERVED =0.0038 G-SALT/LBM-WATER, SALT MISSED =0.0012 G-SALT/LBM-WATER

PROBES   1 THRU   8      0.0237     0.0185     0.0141     0.0059     0.0050     0.0024     0.0001     0.0001
PROBES   9 THRU  16      0.0145     0.0140     0.0076     0.0042     0.0012     0.0011    -0.0001     0.0066
PROBES  17 THRU  24      0.0048     0.0008     0.0005     0.0003     0.0020     0.0014     0.0062     0.0056
PROBES  25 THRU  32      0.0212     0.0139     0.0151     0.0130     0.0030     0.0053     0.0002     0.0154
PROBES  33 THRU  40      0.0169     0.0078     0.0122     0.0112     0.0000     0.0088     0.0095     0.0072
PROBES  41 THRU  48      0.0063     0.0088     0.0005     0.0013     0.0034     0.0021    -0.0004     0.0008
PROBES  49 THRU  56      0.0124     0.0188     0.0132     0.0074     0.0129     0.0115     0.0002    -0.0001
PROBES  57 THRU  64      0.0069     0.0128     0.0066     0.0020     0.0008     0.0012     0.0045     0.0092
PROBES  65 THRU  72      0.0009     0.0046     0.0002     0.0004     0.0004     0.0004     0.0002    -0.0008
PROBES  73 THRU  80      0.0094     0.0004    -0.0000     0.0018     0.0018     0.0136     0.0124     0.0158
PROBES  81 THRU  88      0.0050     0.0008    -0.0002    -0.0007    -0.0001     0.0014     0.0017     0.0003
PROBES  89 THRU  96      0.0002     0.0002    -0.0003    -0.0008     0.0058     0.0060    -0.0003     0.0049
PROBES  97 THRU 104      0.0030     0.0005     0.0000    -0.0001     0.0038    -0.0003     0.0043     0.0031
PROBES 105 THRU 112      0.0007     0.0003     0.0036     0.0002     0.0002     0.0002     0.0000     0.0009
PROBES 113 THRU 120      0.0006    -0.0006    -0.0003    -0.0011     0.0003     0.0001     0.0054     0.0014
PROBES 121 THRU 126      0.0001     0.0003    -0.0003     0.0003     0.0011    -0.0004

   AXIAL POSITION #  6, AXIAL LOCATION = 22.00 INCHES, SALT OBSERVED =0.0037 G-SALT/LBM-WATER, SALT MISSED =0.0013 G-SALT/LBM-WATER

PROBES   1 THRU   8      0.0232     0.0185     0.0129     0.0061     0.0044     0.0020     0.0003     0.0001
PROBES   9 THRU  16      0.0063     0.0082     0.0038     0.0021     0.0009     0.0008    -0.0001     0.0025
PROBES  17 THRU  24      0.0016     0.0001     0.0004     0.0002     0.0003    -0.0000     0.0040     0.0037
PROBES  25 THRU  32      0.0175     0.0130     0.0139     0.0120     0.0018     0.0037     0.0001     0.0088
PROBES  33 THRU  40      0.0142     0.0042     0.0101     0.0090    -0.0001     0.0034     0.0022     0.0011
PROBES  41 THRU  48      0.0021     0.0063     0.0002    -0.0007     0.0009     0.0002    -0.0005     0.0005
PROBES  49 THRU  56      0.0205     0.0202     0.0158     0.0106     0.0138     0.0124     0.0005    -0.0001
PROBES  57 THRU  64      0.0161     0.0158     0.0125     0.0048     0.0016     0.0025     0.0040     0.0128
PROBES  65 THRU  72      0.0041     0.0089     0.0005     0.0004     0.0013     0.0008     0.0003    -0.0008
PROBES  73 THRU  80      0.0183     0.0004     0.0001     0.0023     0.0040     0.0155     0.0158     0.0195
PROBES  81 THRU  88      0.0117     0.0045     0.0015    -0.0005    -0.0001     0.0056     0.0061     0.0024
PROBES  89 THRU  96      0.0009     0.0007    -0.0002    -0.0002     0.0087     0.0096     0.0001     0.0061
PROBES  97 THRU 104      0.0017     0.0004     0.0000    -0.0001     0.0020    -0.0003     0.0014     0.0014
PROBES 105 THRU 112      0.0008     0.0003     0.0036     0.0002     0.0003     0.0003     0.0001     0.0011
PROBES 113 THRU 120      0.0010    -0.0008    -0.0005    -0.0010     0.0003     0.0001     0.0060     0.0011
PROBES 121 THRU 126      0.0000     0.0002    -0.0007     0.0004     0.0013    -0.0004

   AXIAL POSITION #  7, AXIAL LOCATION = 21.00 INCHES, SALT OBSERVED =0.0038 G-SALT/LBM-WATER, SALT MISSED =0.0012 G-SALT/LBM-WATER

PROBES   1 THRU   8      0.0232     0.0172     0.0120     0.0040     0.0035     0.0013    -0.0001     0.0001
PROBES   9 THRU  16      0.0043     0.0043     0.0012     0.0010     0.0001     0.0001    -0.0002     0.0011
PROBES  17 THRU  24      0.0004     0.0001     0.0003     0.0002     0.0001    -0.0000     0.0043     0.0034
PROBES  25 THRU  32      0.0165     0.0118     0.0130     0.0120     0.0018     0.0040     0.0001     0.0059
PROBES  33 THRU  40      0.0128     0.0024     0.0084     0.0077    -0.0001     0.0020     0.0010     0.0001
PROBES  41 THRU  48      0.0015     0.0063     0.0002    -0.0007     0.0003     0.0001    -0.0003     0.0005
PROBES  49 THRU  56      0.0229     0.0210     0.0168     0.0112     0.0144     0.0132     0.0011    -0.0001
PROBES  57 THRU  64      0.0209     0.0186     0.0174     0.0085     0.0028     0.0037     0.0045     0.0142
PROBES  65 THRU  72      0.0076     0.0106     0.0007     0.0004     0.0028     0.0014     0.0005    -0.0008
PROBES  73 THRU  80      0.0213     0.0002    -0.0000     0.0018     0.0032     0.0150     0.0154     0.0172
PROBES  81 THRU  88      0.0138     0.0046     0.0014    -0.0006    -0.0001     0.0089     0.0103     0.0040
PROBES  89 THRU  96      0.0016     0.0012    -0.0002     0.0014     0.0098     0.0105     0.0004     0.0074
PROBES  97 THRU 104      0.0026     0.0004     0.0000    -0.0001     0.0020    -0.0003     0.0014     0.0018
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PROBES 105 THRU 112        0.0004    0.0003    0.0030    0.0002    0.0002    0.0004    0.0002    0.0012
PROBES 113 THRU 120        0.0008   -0.0008   -0.0005   -0.0013    0.0003    0.0001    0.0054    0.0018
PROBES 121 THRU 126        0.0001    0.0002   -0.0007    0.0005    0.0016   -0.0002

   AXIAL POSITION #  8, AXIAL LOCATION = 20.00 INCHES, SALT OBSERVED =0.0039 G-SALT/LBM-WATER, SALT MISSED =0.0011 G-SALT/LBM-WATER

PROBES   1 THRU   8        0.0232    0.0155    0.0070    0.0008    0.0001    0.0005   -0.0001    0.0002
PROBES   9 THRU  16        0.0107    0.0070    0.0019    0.0004   -0.0001   -0.0001   -0.0002    0.0026
PROBES  17 THRU  24        0.0013    0.0001    0.0004    0.0002    0.0003   -0.0000    0.0033    0.0034
PROBES  25 THRU  32        0.0269    0.0254    0.0233    0.0173    0.0127    0.0081    0.0014    0.0207
PROBES  33 THRU  40        0.0199    0.0190    0.0160    0.0145    0.0010    0.0057    0.0074    0.0105
PROBES  41 THRU  48        0.0104    0.0115    0.0016   -0.0004    0.0022    0.0014    0.0000    0.0016
PROBES  49 THRU  56        0.0086    0.0205    0.0228    0.0164    0.0162    0.0149    0.0023   -0.0000
PROBES  57 THRU  64        0.0064    0.0135    0.0103    0.0033    0.0021    0.0029    0.0048    0.0085
PROBES  65 THRU  72        0.0010    0.0063    0.0003    0.0008    0.0003    0.0004    0.0002   -0.0007
PROBES  73 THRU  80        0.0070    0.0003    0.0000    0.0006   -0.0000    0.0104    0.0064    0.0084
PROBES  81 THRU  88        0.0022   -0.0003   -0.0002   -0.0000    0.0003    0.0012    0.0013    0.0000
PROBES  89 THRU  96        0.0003    0.0002   -0.0001   -0.0007    0.0039    0.0045   -0.0003    0.0035
PROBES  97 THRU 104        0.0026    0.0004    0.0000   -0.0001    0.0026   -0.0001    0.0032    0.0025
PROBES 105 THRU 112        0.0016    0.0003    0.0048    0.0002    0.0000    0.0006    0.0001    0.0013
PROBES 113 THRU 120        0.0010   -0.0005   -0.0004   -0.0010    0.0003    0.0002    0.0047    0.0018
PROBES 121 THRU 126        0.0001    0.0000    0.0006    0.0006    0.0018   -0.0002

   AXIAL POSITION #  9, AXIAL LOCATION = 19.00 INCHES, SALT OBSERVED =0.0038 G-SALT/LBM-WATER, SALT MISSED =0.0012 G-SALT/LBM-WATER

PROBES   1 THRU   8        0.0288    0.0208    0.0163    0.0067    0.0048    0.0018   -0.0000    0.0001
PROBES   9 THRU  16        0.0160    0.0142    0.0074    0.0037    0.0008    0.0006   -0.0001    0.0054
PROBES  17 THRU  24        0.0041    0.0007    0.0005    0.0002    0.0013    0.0004    0.0047    0.0043
PROBES  25 THRU  32        0.0247    0.0154    0.0150    0.0122    0.0017    0.0032    0.0001    0.0167
PROBES  33 THRU  40        0.0174    0.0072    0.0110    0.0109   -0.0001    0.0079    0.0078    0.0059
PROBES  41 THRU  48        0.0046    0.0079    0.0003    0.0000    0.0024    0.0008   -0.0005    0.0006
PROBES  49 THRU  56        0.0159    0.0204    0.0146    0.0082    0.0128    0.0099    0.0000   -0.0000
PROBES  57 THRU  64        0.0085    0.0131    0.0076    0.0014    0.0005    0.0008    0.0034    0.0095
PROBES  65 THRU  72        0.0007    0.0037    0.0002    0.0003    0.0003    0.0003    0.0002   -0.0008
PROBES  73 THRU  80        0.0115    0.0002   -0.0000    0.0014    0.0019    0.0146    0.0156    0.0182
PROBES  81 THRU  88        0.0057    0.0010   -0.0002   -0.0006    0.0000    0.0016    0.0022    0.0003
PROBES  89 THRU  96        0.0001    0.0002   -0.0003   -0.0008    0.0055    0.0057   -0.0003    0.0042
PROBES  97 THRU 104        0.0026    0.0003    0.0000   -0.0001    0.0032   -0.0003    0.0029    0.0025
PROBES 105 THRU 112        0.0006    0.0003    0.0039    0.0002    0.0003    0.0002   -0.0000    0.0010
PROBES 113 THRU 120        0.0005   -0.0008   -0.0004   -0.0010    0.0003    0.0001    0.0054    0.0014
PROBES 121 THRU 126       -0.0000    0.0003   -0.0006    0.0003    0.0009   -0.0004

   AXIAL POSITION # 10, AXIAL LOCATION = 18.00 INCHES, SALT OBSERVED =0.0040 G-SALT/LBM-WATER, SALT MISSED =0.0011 G-SALT/LBM-WATER

PROBES   1 THRU   8        0.0280    0.0210    0.0174    0.0082    0.0072    0.0023    0.0003    0.0001
PROBES   9 THRU  16        0.0065    0.0090    0.0033    0.0030    0.0008    0.0007   -0.0001    0.0015
PROBES  17 THRU  24        0.0009    0.0001    0.0004    0.0002    0.0002    0.0000    0.0036    0.0034
PROBES  25 THRU  32        0.0212    0.0118    0.0129    0.0111    0.0009    0.0026    0.0001    0.0083
PROBES  33 THRU  40        0.0138    0.0021    0.0075    0.0061   -0.0001    0.0024    0.0018    0.0003
PROBES  41 THRU  48        0.0010    0.0056    0.0002   -0.0007    0.0004    0.0001   -0.0004    0.0005
PROBES  49 THRU  56        0.0268    0.0221    0.0171    0.0090    0.0133    0.0105    0.0001   -0.0000
PROBES  57 THRU  64        0.0186    0.0165    0.0121    0.0038    0.0009    0.0013    0.0037    0.0122
PROBES  65 THRU  72        0.0024    0.0068    0.0002    0.0004    0.0007    0.0004    0.0002   -0.0007
PROBES  73 THRU  80        0.0226    0.0003    0.0001    0.0024    0.0058    0.0182    0.0214    0.0240
PROBES  81 THRU  88        0.0148    0.0061    0.0023   -0.0005   -0.0001    0.0053    0.0063    0.0027
PROBES  89 THRU  96        0.0011    0.0006   -0.0003   -0.0007    0.0079    0.0088   -0.0002    0.0066
PROBES  97 THRU 104        0.0038    0.0003    0.0000   -0.0001    0.0026   -0.0001    0.0020    0.0021
PROBES 105 THRU 112        0.0006    0.0003    0.0039    0.0002    0.0003    0.0002    0.0000    0.0011
PROBES 113 THRU 120        0.0006   -0.0008   -0.0005   -0.0009    0.0003    0.0001    0.0060    0.0011
PROBES 121 THRU 126       -0.0000    0.0001   -0.0007    0.0003    0.0009   -0.0004
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   AXIAL POSITION # 11, AXIAL LOCATION = 17.00 INCHES, SALT OBSERVED =0.0040 G-SALT/LBM-WATER, SALT MISSED =0.0010 G-SALT/LBM-WATER

PROBES   1 THRU   8        0.0255     0.0172     0.0105     0.0023     0.0014     0.0008    -0.0002     0.0002
PROBES   9 THRU  16        0.0038     0.0034     0.0007     0.0004    -0.0001    -0.0001    -0.0001     0.0009
PROBES  17 THRU  24        0.0004     0.0001     0.0004     0.0002     0.0001    -0.0000     0.0047     0.0037
PROBES  25 THRU  32        0.0201     0.0147     0.0129     0.0120     0.0015     0.0034     0.0001     0.0068
PROBES  33 THRU  40        0.0131     0.0019     0.0062     0.0058    -0.0001     0.0011     0.0004    -0.0004
PROBES  41 THRU  48        0.0010     0.0061     0.0002    -0.0007     0.0002     0.0001    -0.0004     0.0005
PROBES  49 THRU  56        0.0288     0.0259     0.0204     0.0142     0.0151     0.0125     0.0002    -0.0000
PROBES  57 THRU  64        0.0265     0.0219     0.0210     0.0098     0.0022     0.0032     0.0037     0.0147
PROBES  65 THRU  72        0.0076     0.0097     0.0004     0.0004     0.0019     0.0011     0.0003    -0.0008
PROBES  73 THRU  80        0.0267     0.0003    -0.0000     0.0011     0.0018     0.0154     0.0168     0.0195
PROBES  81 THRU  88        0.0141     0.0041     0.0008    -0.0007    -0.0001     0.0099     0.0103     0.0039
PROBES  89 THRU  96        0.0011     0.0006    -0.0003     0.0003     0.0095     0.0097    -0.0001     0.0049
PROBES  97 THRU 104        0.0038     0.0003     0.0000    -0.0001     0.0032    -0.0003     0.0023     0.0021
PROBES 105 THRU 112        0.0007     0.0003     0.0039     0.0002     0.0001     0.0003     0.0001     0.0012
PROBES 113 THRU 120        0.0008    -0.0007    -0.0003    -0.0010     0.0003     0.0001     0.0040     0.0003
PROBES 121 THRU 126       -0.0000     0.0002    -0.0007     0.0002     0.0017    -0.0005

   AXIAL POSITION # 12, AXIAL LOCATION = .16.00 INCHES, SALT OBSERVED =0.0040 G-SALT/LBM-WATER, SALT MISSED =0.0010 G-SALT/LBM-WATER

PROBES   1 THRU   8        0.0288     0.0171     0.0079     0.0009     0.0003     0.0006    -0.0001     0.0002
PROBES   9 THRU  16        0.0122     0.0084     0.0014     0.0003    -0.0001    -0.0000    -0.0002     0.0022
PROBES  17 THRU  24        0.0012     0.0001     0.0004     0.0002     0.0003     0.0000     0.0047     0.0043
PROBES  25 THRU  32        0.0319     0.0292     0.0257     0.0184     0.0113     0.0072     0.0006     0.0239
PROBES  33 THRU  40        0.0217     0.0182     0.0155     0.0139     0.0003     0.0048     0.0064     0.0087
PROBES  41 THRU  48        0.0080     0.0106     0.0008    -0.0007     0.0010     0.0004    -0.0005     0.0012
PROBES  49 THRU  56        0.0095     0.0225     0.0262     0.0182     0.0162     0.0145     0.0016    -0.0001
PROBES  57 THRU  64        0.0069     0.0137     0.0107     0.0031     0.0011     0.0018     0.0037     0.0075
PROBES  65 THRU  72        0.0003     0.0046     0.0002     0.0004     0.0002     0.0003     0.0002    -0.0008
PROBES  73 THRU  80        0.0072     0.0002     0.0000     0.0005     0.0000     0.0109     0.0075     0.0107
PROBES  81 THRU  88        0.0020    -0.0003    -0.0003     0.0003     0.0003     0.0010     0.0009     0.0000
PROBES  89 THRU  96        0.0004     0.0002    -0.0001    -0.0005     0.0042     0.0038    -0.0003     0.0035
PROBES  97 THRU 104        0.0034     0.0003     0.0000    -0.0001     0.0029    -0.0001     0.0020     0.0021
PROBES 105 THRU 112        0.0017     0.0003     0.0042     0.0002     0.0002     0.0004     0.0001     0.0016
PROBES 113 THRU 120        0.0008    -0.0009    -0.0004    -0.0011     0.0003     0.0001     0.0057     0.0022
PROBES 121 THRU 126       -0.0000     0.0002     0.0000     0.0008     0.0013    -0.0004

   AXIAL POSITION # 13, AXIAL LOCATION = 15.00 INCHES, SALT OBSERVED =0.0040 G-SALT/LBM-WATER; SALT MISSED =0.0010 G-SALT/LBM-WATER

PROBES   1 THRU   8        0.0358     0.0250     0.0174     0.0057     0.0027     0.0011    -0.0002     0.0001
PROBES   9 THRU  16        0.0207     0.0179     0.0076     0.0036     0.0004     0.0002    -0.0002     0.0057
PROBES  17 THRU  24        0.0038     0.0003     0.0004     0.0002     0.0006     0.0000     0.0043     0.0037
PROBES  25 THRU  32        0.0350     0.0216     0.0181     0.0130     0.0027     0.0040     0.0001     0.0241
PROBES  33 THRU  40        0.0217     0.0125     0.0119     0.0110    -0.0001     0.0086     0.0110     0.0080
PROBES  41 THRU  48        0.0058     0.0084     0.0003    -0.0005     0.0019     0.0006    -0.0006     0.0005
PROBES  49 THRU  56        0.0132     0.0212     0.0176     0.0082     0.0129     0.0101    -0.0000    -0.0000
PROBES  57 THRU  64        0.0052     0.0122     0.0061     0.0008     0.0003     0.0005     0.0034     0.0068
PROBES  65 THRU  72        0.0002     0.0034     0.0002     0.0004     0.0002     0.0003     0.0002    -0.0008
PROBES  73 THRU  80        0.0083     0.0003     0.0000     0.0008     0.0007     0.0131     0.0140     0.0177
PROBES  81 THRU  88        0.0030    -0.0001    -0.0004    -0.0002     0.0001     0.0007     0.0007     0.0000
PROBES  89 THRU  96        0.0002     0.0002    -0.0001    -0.0004     0.0049     0.0038    -0.0003     0.0035
PROBES  97 THRU 104        0.0026     0.0004     0.0000    -0.0001     0.0032    -0.0003     0.0020     0.0021
PROBES 105 THRU 112        0.0011     0.0003     0.0039     0.0002     0.0003     0.0002    -0.0000     0.0009
PROBES 113 THRU 120        0.0005    -0.0006    -0.0003    -0.0008     0.0003     0.0001     0.0057     0.0025
PROBES 121 THRU 126       -0.0000     0.0002    -0.0005     0.0004     0.0009    -0.0004

   AXIAL POSITION # 14, AXIAL LOCATION = 14.00 INCHES, SALT OBSERVED =0.0042 G-SALT/LBM-WATER, SALT MISSED =0.0008 G-SALT/LBM-WATER
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PROBES   1 THRU   8        0.0368     0.0275     0.0226     0.0107     0.0077     0.0019    -0.0000     0.0001
PROBES   9 THRU  16        0.0079     0.0110     0.0033     0.0027     0.0004     0.0003    -0.0002     0.0012
PROBES  17 THRU  24        0.0007     0.0001     0.0004     0.0002     0.0001    -0.0000     0.0050     0.0037
PROBES  25 THRU  32        0.0261     0.0159     0.0122     0.0104     0.0003     0.0029     0.0001     0.0090
PROBES  33 THRU  40        0.0138     0.0015     0.0062     0.0036    -0.0001     0.0014     0.0007    -0.0005
PROBES  41 THRU  48        0.0006     0.0047     0.0001    -0.0005     0.0004     0.0001    -0.0003     0.0004
PROBES  49 THRU  56        0.0339     0.0297     0.0209     0.0101     0.0134     0.0080    -0.0001     0.0001
PROBES  57 THRU  64        0.0221     0.0166     0.0115     0.0025     0.0004     0.0005     0.0034     0.0110
PROBES  65 THRU  72        0.0009     0.0043     0.0002     0.0004     0.0002     0.0003     0.0002    -0.0007
PROBES  73 THRU  80        0.0259     0.0002    -0.0000     0.0020     0.0048     0.0208     0.0283     0.0311
PROBES  81 THRU  88        0.0151     0.0059     0.0011    -0.0007     0.0000     0.0034     0.0051     0.0009
PROBES  89 THRU  96        0.0003     0.0003    -0.0003    -0.0006     0.0046     0.0057    -0.0003     0.0046
PROBES  97 THRU 104        0.0026     0.0004     0.0000    -0.0001     0.0038    -0.0003     0.0020     0.0021
PROBES 105 THRU 112        0.0006     0.0003     0.0030     0.0002     0.0001     0.0002    -0.0000     0.0008
PROBES 113 THRU 120        0.0007    -0.0006    -0.0003    -0.0008     0.0003     0.0001     0.0057     0.0025
PROBES 121 THRU 126       -0.0000     0.0003    -0.0007     0.0003     0.0008    -0.0004

   AXIAL POSITION # 15, AXIAL LOCATION = 13.00 INCHES, SALT OBSERVED =0.0042 G-SALT/LBM-WATER, SALT MISSED =0.0008 G-SALT/LBM-WATER

PROBES   1 THRU   8        0.0334     0.0189     0.0118     0.0042     0.0013     0.0005    -0.0002     0.0002
PROBES   9 THRU  16        0.0025     0.0021     0.0000     0.0001    -0.0001    -0.0001    -0.0002     0.0004
PROBES  17 THRU  24        0.0002     0.0001     0.0004     0.0002     0.0001    -0.0000     0.0040     0.0043
PROBES  25 THRU  32        0.0244     0.0179     0.0124     0.0115     0.0003     0.0029     0.0001     0.0058
PROBES  33 THRU  40        0.0128     0.0006     0.0052     0.0036    -0.0001     0.0005     0.0002    -0.0005
PROBES  41 THRU  48        0.0003     0.0047     0.0001    -0.0003     0.0002     0.0001    -0.0003     0.0005
PROBES  49 THRU  56        0.0401     0.0356     0.0270     0.0169     0.0148     0.0090    -0.0001    -0.0000
PROBES  57 THRU  64        0.0336     0.0243     0.0219     0.0071     0.0008     0.0007     0.0031     0.0135
PROBES  65 THRU  72        0.0032     0.0060     0.0002     0.0003     0.0003     0.0004     0.0002    -0.0008
PROBES  73 THRU  80        0.0331     0.0002     0.0000     0.0011     0.0020     0.0175     0.0226     0.0250
PROBES  81 THRU  88        0.0185     0.0048     0.0011    -0.0007    -0.0000     0.0085     0.0094     0.0020
PROBES  89 THRU  96        0.0005     0.0005    -0.0003    -0.0008     0.0067     0.0075    -0.0003     0.0046
PROBES  97 THRU 104        0.0026     0.0004     0.0000    -0.0001     0.0026    -0.0001     0.0017     0.0021
PROBES 105 THRU 112        0.0006     0.0003     0.0030     0.0002     0.0001     0.0003     0.0001     0.0011
PROBES 113 THRU 120        0.0008    -0.0009    -0.0004    -0.0011     0.0003     0.0001     0.0057     0.0025
PROBES 121 THRU 126        0.0000     0.0002    -0.0007     0.0004     0.0011    -0.0005

   AXIAL POSITION # 16, AXIAL LOCATION = 12.00 INCHES, SALT OBSERVED =0.0041 G-SALT/LBM-WATER, SALT MISSED =0.0009 G-SALT/LBM-WATER

PROBES   1 THRU   8        0.0334     0.0165     0.0058    -0.0002    -0.0006     0.0004    -0.0002     0.0001
PROBES   9 THRU  16        0.0103     0.0062     0.0003    -0.0001    -0.0001    -0.0001    -0.0002     0.0009
PROBES  17 THRU  24        0.0005     0.0001     0.0004     0.0002     0.0001    -0.0000     0.0043     0.0034
PROBES  25 THRU  32        0.0406     0.0394     0.0323     0.0208     0.0107     0.0068     0.0005     0.0264
PROBES  33 THRU  40        0.0228     0.0179     0.0142     0.0125    -0.0001     0.0024     0.0035     0.0036
PROBES  41 THRU  48        0.0035     0.0074     0.0002    -0.0005     0.0005     0.0001    -0.0005     0.0007
PROBES  49 THRU  56        0.0091     0.0289     0.0355     0.0268     0.0208     0.0148     0.0008    -0.0000
PROBES  57 THRU  64        0.0067     0.0147     0.0133     0.0034     0.0013     0.0015     0.0051     0.0066
PROBES  65 THRU  72        0.0002     0.0034     0.0002     0.0005     0.0002     0.0003     0.0002    -0.0008
PROBES  73 THRU  80        0.0062     0.0003     0.0000     0.0005    -0.0001     0.0090     0.0050     0.0070
PROBES  81 THRU  88        0.0014    -0.0003    -0.0002     0.0001     0.0002     0.0006     0.0004     0.0001
PROBES  89 THRU  96        0.0005     0.0002    -0.0001    -0.0005     0.0042     0.0038    -0.0003     0.0035
PROBES  97 THRU 104        0.0038     0.0003     0.0001    -0.0001     0.0032    -0.0004     0.0020     0.0025
PROBES 105 THRU 112        0.0011     0.0003     0.0039     0.0002     0.0002     0.0003     0.0002     0.0012
PROBES 113 THRU 120        0.0008    -0.0008    -0.0004    -0.0012     0.0003     0.0001     0.0044     0.0014
PROBES 121 THRU 126       -0.0000     0.0000    -0.0001     0.0005     0.0016    -0.0002

   AXIAL POSITION # 17, AXIAL LOCATION = 11.50 INCHES, SALT OBSERVED =0.0040 G-SALT/LBM-WATER, SALT MISSED =0.0010 G-SALT/LBM-WATER

PROBES   1 THRU   8        0.0373     0.0198     0.0091     0.0004    -0.0003     0.0005    -0.0001     0.0002
PROBES   9 THRU  16        0.0138     0.0080     0.0008     0.0000    -0.0001    -0.0001    -0.0001     0.0015
PROBES  17 THRU  24        0.0006     0.0001     0.0004     0.0002     0.0002    -0.0000     0.0043     0.0037
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PROBES  25 THRU  32     0.0418    0.0366    0.0331    0.0180    0.0100    0.0057    0.0004    0.0302
PROBES  33 THRU  40     0.0250    0.0179    0.0142    0.0123   -0.0000    0.0033    0.0043    0.0048
PROBES  41 THRU  48     0.0040    0.0076    0.0003   -0.0006    0.0004    0.0001   -0.0005    0.0007
PROBES  49 THRU  56     0.0074    0.0269    0.0238    0.0187    0.0162    0.0136    0.0004   -0.0001
PROBES  57 THRU  64     0.0026    0.0121    0.0066    0.0008    0.0005    0.0010    0.0045    0.0054
PROBES  65 THRU  72     0.0002    0.0037    0.0002    0.0004    0.0002    0.0003    0.0002   -0.0008
PROBES  73 THRU  80     0.0053    0.0003   -0.0000    0.0005   -0.0001    0.0105    0.0071    0.0101
PROBES  81 THRU  88     0.0014   -0.0003   -0.0003    0.0002    0.0002    0.0003    0.0003    0.0000
PROBES  89 THRU  96     0.0004    0.0002   -0.0001   -0.0005    0.0042    0.0031   -0.0003    0.0035
PROBES  97 THRU 104     0.0042    0.0003    0.0001   -0.0001    0.0032   -0.0004    0.0020    0.0025
PROBES 105 THRU 112     0.0009    0.0003    0.0039    0.0002    0.0002    0.0003    0.0001    0.0010
PROBES 113 THRU 120     0.0008   -0.0008   -0.0004   -0.0012    0.0003    0.0001    0.0044    0.0025
PROBES 121 THRU 126    -0.0000    0.0000   -0.0003    0.0004    0.0012   -0.0003

    AXIAL POSITION # 18, AXIAL LOCATION = 11.00 INCHES, SALT OBSERVED =0.0038 G-SALT/LBM-WATER, SALT MISSED =0.0012 G-SALT/LBM-WATER

PROBES   1 THRU   8     0.0464    0.0305    0.0174    0.0035    0.0009    0.0004   -0.0002    0.0001
PROBES   9 THRU  16     0.0191    0.0162    0.0048    0.0009   -0.0001   -0.0001   -0.0002    0.0030
PROBES  17 THRU  24     0.0014    0.0001    0.0004    0.0002    0.0002   -0.0000    0.0053    0.0043
PROBES  25 THRU  32     0.0424    0.0232    0.0142    0.0112    0.0003    0.0026    0.0001    0.0222
PROBES  33 THRU  40     0.0196    0.0041    0.0069    0.0047   -0.0001    0.0049    0.0050    0.0022
PROBES  41 THRU  48     0.0013    0.0049    0.0002   -0.0007    0.0003    0.0001   -0.0005    0.0004
PROBES  49 THRU  56     0.0214    0.0313    0.0220    0.0088    0.0124    0.0048   -0.0001    0.0001
PROBES  57 THRU  64     0.0073    0.0122    0.0059    0.0002    0.0002    0.0004    0.0034    0.0057
PROBES  65 THRU  72     0.0001    0.0037    0.0002    0.0004    0.0002    0.0002    0.0002   -0.0005
PROBES  73 THRU  80     0.0129    0.0003   -0.0000    0.0006    0.0001    0.0136    0.0196    0.0235
PROBES  81 THRU  88     0.0040   -0.0003   -0.0002    0.0001    0.0002    0.0004    0.0004    0.0000
PROBES  89 THRU  96     0.0003    0.0002   -0.0001   -0.0003    0.0036    0.0038   -0.0003    0.0035
PROBES  97 THRU 104     0.0030    0.0003    0.0001   -0.0001    0.0026   -0.0003    0.0017    0.0018
PROBES 105 THRU 112     0.0004    0.0003    0.0036    0.0002    0.0001    0.0002   -0.0000    0.0006
PROBES 113 THRU 120     0.0005   -0.0008   -0.0004   -0.0012    0.0003    0.0001    0.0047    0.0011
PROBES 121 THRU 126    -0.0000    0.0000   -0.0007    0.0004    0.0006   -0.0004

    AXIAL POSITION # 19, AXIAL LOCATION = 10.50 INCHES, SALT OBSERVED =0.0037 G-SALT/LBM-WATER, SALT MISSED =0.0013 G-SALT/LBM-WATER

PROBES   1 THRU   8     0.0413    0.0268    0.0219    0.0084    0.0037    0.0007   -0.0002    0.0001
PROBES   9 THRU  16     0.0041    0.0048    0.0010    0.0008   -0.0001   -0.0001   -0.0002    0.0003
PROBES  17 THRU  24     0.0002    0.0001    0.0004    0.0002    0.0001   -0.0000    0.0047    0.0045
PROBES  25 THRU  32     0.0266    0.0154    0.0107    0.0094    0.0000    0.0019    0.0001    0.0059
PROBES  33 THRU  40     0.0125    0.0002    0.0033    0.0023   -0.0001    0.0003    0.0003   -0.0002
PROBES  41 THRU  48     0.0004    0.0049    0.0002   -0.0003    0.0002    0.0001   -0.0003    0.0005
PROBES  49 THRU  56     0.0366    0.0294    0.0196    0.0082    0.0122    0.0032   -0.0001    0.0001
PROBES  57 THRU  64     0.0164    0.0142    0.0076    0.0008    0.0002    0.0004    0.0028    0.0068
PROBES  65 THRU  72     0.0001    0.0037    0.0002    0.0004    0.0002    0.0002    0.0002   -0.0004
PROBES  73 THRU  80     0.0234    0.0002    0.0000    0.0009    0.0020    0.0206    0.0281    0.0396
PROBES  81 THRU  88     0.0112    0.0025   -0.0004   -0.0001    0.0001    0.0006    0.0008    0.0001
PROBES  89 THRU  96     0.0002    0.0002   -0.0000   -0.0004    0.0042    0.0035   -0.0003    0.0035
PROBES  97 THRU 104     0.0038    0.0003    0.0001   -0.0001    0.0029   -0.0001    0.0020    0.0021
PROBES 105 THRU 112     0.0005    0.0003    0.0030    0.0002    0.0001    0.0002    0.0000    0.0006
PROBES 113 THRU 120     0.0004   -0.0008   -0.0004   -0.0012    0.0003    0.0001    0.0060    0.0022
PROBES 121 THRU 126     0.0000    0.0000   -0.0005    0.0003    0.0004   -0.0003

    AXIAL POSITION # 20, AXIAL LOCATION = 10.00 INCHES, SALT OBSERVED =0.0038 G-SALT/LBM-WATER, SALT MISSED =0.0012 G-SALT/LBM-WATER

PROBES   1 THRU   8     0.0429    0.0266    0.0222    0.0088    0.0048    0.0006   -0.0001    0.0002
PROBES   9 THRU  16     0.0040    0.0048    0.0008    0.0006   -0.0001   -0.0001   -0.0001    0.0003
PROBES  17 THRU  24     0.0002    0.0001    0.0004    0.0003    0.0001   -0.0000    0.0036    0.0040
PROBES  25 THRU  32     0.0288    0.0159    0.0109    0.0092   -0.0001    0.0026    0.0001    0.0063
PROBES  33 THRU  40     0.0126    0.0003    0.0033    0.0009   -0.0000    0.0006    0.0002   -0.0001
PROBES  41 THRU  48     0.0004    0.0052    0.0002   -0.0003    0.0002    0.0001   -0.0002    0.0004
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PROBES  49 THRU  56        0.0386    0.0316    0.0209    0.0084    0.0121    0.0027    0.0000    0.0002
PROBES  57 THRU  64        0.0189    0.0147    0.0081    0.0007    0.0002    0.0004    0.0028    0.0073
PROBES  65 THRU  72        0.0001    0.0040    0.0002    0.0003    0.0002    0.0003    0.0002   -0.0007
PROBES  73 THRU  80        0.0254    0.0002    0.0001    0.0009    0.0023    0.0219    0.0314    0.0342
PROBES  81 THRU  88        0.0128    0.0024   -0.0004   -0.0001    0.0001    0.0007    0.0010    0.0001
PROBES  89 THRU  96        0.0002    0.0002   -0.0002   -0.0003    0.0032    0.0041   -0.0003    0.0032
PROBES  97 THRU 104        0.0042    0.0003    0.0001   -0.0001    0.0029   -0.0001    0.0020    0.0018
PROBES 105 THRU 112        0.0003    0.0003    0.0045    0.0002    0.0001    0.0002    0.0000    0.0008
PROBES 113 THRU 120        0.0005   -0.0009   -0.0004   -0.0011    0.0003    0.0001    0.0063    0.0025
PROBES 121 THRU 126        0.0001    0.0002   -0.0006    0.0003    0.0007   -0.0004

   AXIAL POSITION # 21, AXIAL LOCATION =  9.50 INCHES, SALT OBSERVED =0.0040 G-SALT/LBM-WATER, SALT MISSED =0.0010 G-SALT/LBM-WATER

PROBES   1 THRU   8        0.0400    0.0266    0.0250    0.0121    0.0064    0.0008   -0.0002    0.0002
PROBES   9 THRU  16        0.0014    0.0021    0.0005    0.0007   -0.0000   -0.0001   -0.0002    0.0003
PROBES  17 THRU  24        0.0002    0.0001    0.0004    0.0002    0.0001   -0.0000    0.0047    0.0037
PROBES  25 THRU  32        0.0186    0.0082    0.0092    0.0070   -0.0001    0.0019    0.0001    0.0025
PROBES  33 THRU  40        0.0102   -0.0002    0.0033    0.0023    0.0000    0.0006    0.0003   -0.0001
PROBES  41 THRU  48        0.0003    0.0036    0.0002   -0.0003    0.0002    0.0001   -0.0002    0.0003
PROBES  49 THRU  56        0.0512    0.0271    0.0141    0.0049    0.0103    0.0032   -0.0000    0.0001
PROBES  57 THRU  64        0.0265    0.0151    0.0062    0.0004    0.0002    0.0004    0.0021    0.0079
PROBES  65 THRU  72        0.0001    0.0043    0.0002    0.0003    0.0002    0.0003    0.0002   -0.0007
PROBES  73 THRU  80        0.0370    0.0002    0.0000    0.0011    0.0050    0.0314    0.0412    0.0435
PROBES  81 THRU  88        0.0220    0.0076   -0.0001   -0.0002    0.0001    0.0007    0.0019    0.0003
PROBES  89 THRU  96        0.0004    0.0003   -0.0001   -0.0000    0.0036    0.0041   -0.0003    0.0035
PROBES  97 THRU 104        0.0038    0.0003    0.0001   -0.0001    0.0020   -0.0004    0.0023    0.0021
PROBES 105 THRU 112        0.0005    0.0003    0.0039    0.0002    0.0003    0.0002    0.0000    0.0006
PROBES 113 THRU 120        0.0004   -0.0008   -0.0004   -0.0011    0.0003    0.0002    0.0063    0.0022
PROBES 121 THRU 126        0.0000    0.0000   -0.0006    0.0002    0.0005   -0.0004

   AXIAL POSITION # 22, AXIAL LOCATION =  9.00 INCHES, SALT OBSERVED =0.0039 G-SALT/LBM-WATER, SALT MISSED =0.0011 G-SALT/LBM-WATER

PROBES   1 THRU   8        0.0381    0.0165    0.0045   -0.0003   -0.0005    0.0004   -0.0002    0.0001
PROBES   9 THRU  16        0.0012    0.0002    0.0001   -0.0001   -0.0001   -0.0001   -0.0002    0.0003
PROBES  17 THRU  24        0.0002    0.0001    0.0004    0.0002    0.0001   -0.0000    0.0050    0.0040
PROBES  25 THRU  32        0.0338    0.0232    0.0109    0.0088    0.0000    0.0026    0.0001    0.0033
PROBES  33 THRU  40        0.0118    0.0001    0.0036    0.0040   -0.0001    0.0004    0.0002   -0.0002
PROBES  41 THRU  48        0.0004    0.0052    0.0001   -0.0006    0.0004    0.0002   -0.0003    0.0005
PROBES  49 THRU  56        0.0404    0.0466    0.0325    0.0212    0.0146    0.0044   -0.0001    0.0000
PROBES  57 THRU  64        0.0280    0.0235    0.0241    0.0057    0.0003    0.0005    0.0034    0.0093
PROBES  65 THRU  72        0.0002    0.0049    0.0002    0.0005    0.0002    0.0003    0.0002   -0.0008
PROBES  73 THRU  80        0.0262    0.0002    0.0000    0.0006    0.0000    0.0130    0.0177    0.0255
PROBES  81 THRU  88        0.0100    0.0001   -0.0004   -0.0001    0.0001    0.0013    0.0021    0.0000
PROBES  89 THRU  96        0.0003    0.0002   -0.0000   -0.0000    0.0036    0.0041   -0.0003    0.0046
PROBES  97 THRU 104        0.0038    0.0003    0.0001   -0.0001    0.0032   -0.0003    0.0023    0.0021
PROBES 105 THRU 112        0.0006    0.0003    0.0045    0.0002    0.0001    0.0003    0.0001    0.0009
PROBES 113 THRU 120        0.0006   -0.0008   -0.0004   -0.0011    0.0003    0.0001    0.0054    0.0025
PROBES 121 THRU 126        0.0001    0.0001   -0.0006    0.0004    0.0010   -0.0005

   AXIAL POSITION # 23, AXIAL LOCATION =  8.50 INCHES, SALT OBSERVED =0.0035 G-SALT/LBM-WATER, SALT MISSED =0.0015 G-SALT/LBM-WATER

PROBES   1 THRU   8        0.0376    0.0163    0.0027   -0.0004   -0.0006    0.0004   -0.0002    0.0001
PROBES   9 THRU  16        0.0073    0.0028    0.0001   -0.0001   -0.0001   -0.0001   -0.0002    0.0004
PROBES  17 THRU  24        0.0002    0.0001    0.0004    0.0002    0.0001   -0.0000    0.0043    0.0034
PROBES  25 THRU  32        0.0479    0.0428    0.0201    0.0160    0.0028    0.0032    0.0001    0.0259
PROBES  33 THRU  40        0.0200    0.0055    0.0057    0.0027   -0.0001    0.0006    0.0002   -0.0003
PROBES  41 THRU  48        0.0003    0.0052    0.0002   -0.0004    0.0003    0.0001   -0.0005    0.0006
PROBES  49 THRU  56        0.0067    0.0350    0.0417    0.0236    0.0173    0.0055   -0.0001   -0.0001
PROBES  57 THRU  64        0.0009    0.0115    0.0061    0.0002    0.0004    0.0006    0.0053    0.0054
PROBES  65 THRU  72        0.0002    0.0058    0.0003    0.0005    0.0003    0.0007    0.0002   -0.0008
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PROBES  73 THRU  80      0.0034    0.0005    0.0001    0.0010   -0.0001    0.0091    0.0044    0.0148
PROBES  81 THRU  88      0.0013    0.0001   -0.0001    0.0001    0.0001    0.0003    0.0002    0.0001
PROBES  89 THRU  96      0.0005    0.0002   -0.0001   -0.0001    0.0032    0.0038   -0.0003    0.0046
PROBES  97 THRU 104      0.0038    0.0003    0.0001   -0.0001    0.0026   -0.0003    0.0017    0.0025
PROBES 105 THRU 112      0.0007    0.0003    0.0045    0.0002    0.0001    0.0003    0.0000    0.0008
PROBES 113 THRU 120      0.0004   -0.0008   -0.0002   -0.0011    0.0003    0.0001    0.0054    0.0018
PROBES 121 THRU 126     -0.0000    0.0000   -0.0006    0.0003    0.0011   -0.0005

   AXIAL POSITION # 24, AXIAL LOCATION =  8.00 INCHES, SALT OBSERVED =0.0037 G-SALT/LBM-WATER, SALT MISSED =0.0013 G-SALT/LBM-WATER

PROBES   1 THRU   8      0.0358    0.0136    0.0022   -0.0004   -0.0006    0.0005   -0.0001    0.0002
PROBES   9 THRU  16      0.0041    0.0013   -0.0000   -0.0001   -0.0001   -0.0001   -0.0002    0.0004
PROBES  17 THRU  24      0.0002    0.0001    0.0005    0.0002    0.0001   -0.0000    0.0053    0.0037
PROBES  25 THRU  32      0.0494    0.0489    0.0254    0.0195    0.0045    0.0037    0.0001    0.0229
PROBES  33 THRU  40      0.0204    0.0055    0.0062    0.0040   -0.0001    0.0007    0.0002   -0.0004
PROBES  41 THRU  48      0.0004    0.0054    0.0002   -0.0005    0.0006    0.0001   -0.0005    0.0006
PROBES  49 THRU  56      0.0044    0.0487    0.0533    0.0349    0.0251    0.0074   -0.0001   -0.0000
PROBES  57 THRU  64      0.0009    0.0128    0.0092    0.0001    0.0004    0.0005    0.0045    0.0054
PROBES  65 THRU  72      0.0002    0.0049    0.0002    0.0004    0.0003    0.0004    0.0002   -0.0008
PROBES  73 THRU  80      0.0014    0.0005   -0.0000    0.0009   -0.0001    0.0075    0.0014    0.0030
PROBES  81 THRU  88      0.0004   -0.0001   -0.0001    0.0001    0.0001    0.0003    0.0002    0.0002
PROBES  89 THRU  96      0.0006    0.0002   -0.0000   -0.0003    0.0039    0.0041   -0.0003    0.0039
PROBES  97 THRU 104      0.0034    0.0003    0.0001   -0.0001    0.0023   -0.0002    0.0017    0.0014
PROBES 105 THRU 112      0.0007    0.0003    0.0039    0.0002    0.0002    0.0003    0.0001    0.0010
PROBES 113 THRU 120      0.0008   -0.0009   -0.0004   -0.0010    0.0003    0.0001    0.0060    0.0022
PROBES 121 THRU 126     -0.0000    0.0000   -0.0005    0.0004    0.0013   -0.0006

   AXIAL POSITION # 25, AXIAL LOCATION =  7.50 INCHES, SALT OBSERVED =0.0044 G-SALT/LBM-WATER, SALT MISSED =0.0006 G-SALT/LBM-WATER

PROBES   1 THRU   8      0.0423    0.0168    0.0027   -0.0004   -0.0005    0.0006   -0.0002    0.0001
PROBES   9 THRU  16      0.0105    0.0052   -0.0001   -0.0002    0.0004    0.0025   -0.0002    0.0004
PROBES  17 THRU  24      0.0002    0.0001    0.0004    0.0002    0.0001   -0.0000    0.0047    0.0045
PROBES  25 THRU  32      0.0561    0.0555    0.0293    0.0215    0.0059    0.0040    0.0001    0.0349
PROBES  33 THRU  40      0.0259    0.0086    0.0079    0.0044   -0.0001    0.0009    0.0002   -0.0004
PROBES  41 THRU  48      0.0005    0.0061    0.0003   -0.0007    0.0006    0.0001    0.0002    0.0054
PROBES  49 THRU  56      0.0046    0.0418    0.0539    0.0335    0.0226    0.0080   -0.0001   -0.0000
PROBES  57 THRU  64      0.0003    0.0118    0.0064    0.0001    0.0002    0.0005    0.0042    0.0043
PROBES  65 THRU  72      0.0001    0.0030    0.0002    0.0007    0.0003    0.0004    0.0002   -0.0008
PROBES  73 THRU  80      0.0025    0.0002    0.0000    0.0006   -0.0002    0.0055    0.0021    0.0036
PROBES  81 THRU  88      0.0004   -0.0002   -0.0000   -0.0002    0.0000    0.0003    0.0002    0.0001
PROBES  89 THRU  96      0.0004    0.0002   -0.0002   -0.0007    0.0039    0.0041   -0.0003    0.0049
PROBES  97 THRU 104      0.0049    0.0004    0.0002    0.0004    0.0053   -0.0005    0.0074    0.0086
PROBES 105 THRU 112      0.0040    0.0003    0.0030    0.0002    0.0000    0.0005    0.0002    0.0010
PROBES 113 THRU 120      0.0010   -0.0009   -0.0004   -0.0012    0.0003    0.0001    0.0054    0.0018
PROBES 121 THRU 126     -0.0000    0.0000   -0.0004    0.0006    0.0016   -0.0007

   AXIAL POSITION # 26, AXIAL LOCATION =  7.00 INCHES, SALT OBSERVED =0.0040 G-SALT/LBM-WATER, SALT MISSED =0.0010 G-SALT/LBM-WATER

PROBES   1 THRU   8      0.0619    0.0270    0.0052   -0.0002   -0.0003    0.0005   -0.0002    0.0001
PROBES   9 THRU  16      0.0284    0.0184    0.0006    0.0011    0.0019    0.0027   -0.0001    0.0009
PROBES  17 THRU  24      0.0004    0.0001    0.0005    0.0003    0.0002    0.0001    0.0062    0.0058
PROBES  25 THRU  32      0.0623    0.0386    0.0146    0.0111    0.0001    0.0045    0.0001    0.0411
PROBES  33 THRU  40      0.0300    0.0066    0.0067    0.0051   -0.0001    0.0007    0.0002   -0.0005
PROBES  41 THRU  48      0.0005    0.0061    0.0002   -0.0006    0.0003    0.0001   -0.0006    0.0008
PROBES  49 THRU  56      0.0054    0.0350    0.0262    0.0059    0.0082    0.0058   -0.0001   -0.0001
PROBES  57 THRU  64      0.0002    0.0071    0.0019    0.0001    0.0003    0.0005    0.0048    0.0054
PROBES  65 THRU  72      0.0004    0.0040    0.0002    0.0004    0.0003    0.0004    0.0002   -0.0007
PROBES  73 THRU  80      0.0034    0.0005   -0.0000    0.0009   -0.0001    0.0078    0.0037    0.0067
PROBES  81 THRU  88      0.0010   -0.0002   -0.0002   -0.0004   -0.0001    0.0004    0.0003    0.0000
PROBES  89 THRU  96      0.0002    0.0002   -0.0003   -0.0005    0.0046    0.0048   -0.0003    0.0058
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PROBES  97 THRU 104      0.0059    0.0005    0.0003    0.0000    0.0038   -0.0005    0.0041    0.0031
PROBES 105 THRU 112      0.0008    0.0003    0.0045    0.0002   -0.0001    0.0003    0.0002    0.0008
PROBES 113 THRU 120      0.0004   -0.0010   -0.0004   -0.0013    0.0003    0.0001    0.0076    0.0047
PROBES 121 THRU 126     -0.0001    0.0002   -0.0005    0.0004    0.0010   -0.0007

   AXIAL POSITION # 27, AXIAL LOCATION =  6.50 INCHES, SALT OBSERVED =0.0047 G-SALT/LBM-WATER, SALT MISSED =0.0003 G-SALT/LBM-WATER

PROBES   1 THRU   8      0.0643    0.0413    0.0152    0.0037    0.0003    0.0009   -0.0001    0.0002
PROBES   9 THRU  16      0.0003    0.0001   -0.0000    0.0002    0.0001    0.0002    0.0000    0.0006
PROBES  17 THRU  24      0.0004    0.0002    0.0008    0.0005    0.0005    0.0001    0.0071    0.0065
PROBES  25 THRU  32      0.0310    0.0177    0.0086    0.0059    0.0000    0.0050    0.0002    0.0005
PROBES  33 THRU  40      0.0069   -0.0001    0.0057    0.0061    0.0000    0.0010    0.0003   -0.0005
PROBES  41 THRU  48      0.0010    0.0070    0.0004   -0.0007    0.0009    0.0001   -0.0005    0.0010
PROBES  49 THRU  56      0.0611    0.0524    0.0178    0.0019    0.0071    0.0062    0.0000   -0.0000
PROBES  57 THRU  64      0.0150    0.0109    0.0052    0.0002    0.0005    0.0010    0.0063    0.0071
PROBES  65 THRU  72      0.0004    0.0055    0.0003    0.0007    0.0006    0.0006    0.0002   -0.0007
PROBES  73 THRU  80      0.0365    0.0006    0.0001    0.0012    0.0006    0.0190    0.0447    0.0644
PROBES  81 THRU  88      0.0057   -0.0003   -0.0004   -0.0006   -0.0001    0.0007    0.0006    0.0000
PROBES  89 THRU  96      0.0001    0.0004   -0.0003   -0.0008    0.0064    0.0070   -0.0003    0.0074
PROBES  97 THRU 104      0.0068    0.0007    0.0003    0.0002    0.0060   -0.0005    0.0046    0.0056
PROBES 105 THRU 112      0.0007    0.0004    0.0058    0.0002   -0.0001    0.0005    0.0002    0.0012
PROBES 113 THRU 120      0.0011   -0.0011   -0.0005   -0.0014    0.0004    0.0002    0.0079    0.0057

   AXIAL POSITION # 28, AXIAL LOCATION =  6.00 INCHES, SALT OBSERVED =0.0031 G-SALT/LBM-WATER, SALT MISSED =0.0019 G-SALT/LBM-WATER

PROBES   1 THRU   8      0.0699    0.0307    0.0060   -0.0004   -0.0006    0.0003   -0.0001    0.0003
PROBES   9 THRU  16      0.0279    0.0157    0.0001   -0.0000   -0.0000   -0.0001   -0.0001    0.0004
PROBES  17 THRU  24      0.0002    0.0003    0.0004    0.0002    0.0002    0.0002    0.0025    0.0024
PROBES  25 THRU  32      0.0643    0.0383    0.0148    0.0100   -0.0001    0.0016    0.0001    0.0439
PROBES  33 THRU  40      0.0277    0.0056    0.0050    0.0014    0.0000    0.0004    0.0003   -0.0001
PROBES  41 THRU  48      0.0003    0.0047    0.0002   -0.0003    0.0002    0.0003   -0.0002    0.0004
PROBES  49 THRU  56      0.0046    0.0316    0.0230    0.0052    0.0061    0.0023    0.0002    0.0002
PROBES  57 THRU  64     -0.0005    0.0041    0.0010    0.0002    0.0002    0.0004    0.0024    0.0024
PROBES  65 THRU  72      0.0002    0.0007    0.0004    0.0003    0.0002    0.0002    0.0004   -0.0004
PROBES  73 THRU  80      0.0015    0.0002    0.0001    0.0004   -0.0001    0.0065    0.0018    0.0038
PROBES  81 THRU  88      0.0004    0.0001    0.0009   -0.0000    0.0003    0.0003    0.0003    0.0004
PROBES  89 THRU  96      0.0010    0.0003   -0.0000   -0.0004   -0.0001    0.0020   -0.0002    0.0032

   AXIAL POSITION # 29, AXIAL LOCATION =  5.75 INCHES, SALT OBSERVED =0.0032 G-SALT/LBM-WATER, SALT MISSED =0.0018 G-SALT/LBM-WATER

PROBES   1 THRU   8      0.0668    0.0391    0.0093   -0.0001   -0.0006    0.0003   -0.0001    0.0003
PROBES   9 THRU  16      0.0174    0.0088   -0.0000   -0.0000   -0.0000   -0.0001   -0.0001    0.0003
PROBES  17 THRU  24      0.0002    0.0002    0.0003    0.0003    0.0001    0.0001    0.0047    0.0024
PROBES  25 THRU  32      0.0375    0.0211    0.0081    0.0017    0.0000    0.0006    0.0001    0.0138
PROBES  33 THRU  40      0.0133   -0.0002    0.0014    0.0018    0.0000    0.0004    0.0003   -0.0003
PROBES  41 THRU  48      0.0003    0.0033    0.0001   -0.0005    0.0002    0.0002    0.0000    0.0004
PROBES  49 THRU  56      0.0401    0.0491    0.0191    0.0016    0.0025    0.0023    0.0000   -0.0000
PROBES  57 THRU  64      0.0060    0.0073    0.0030    0.0002    0.0002    0.0003    0.0018    0.0024
PROBES  65 THRU  72      0.0001    0.0011    0.0002    0.0003    0.0002    0.0002    0.0003   -0.0006
PROBES  73 THRU  80      0.0202    0.0002    0.0000    0.0004   -0.0001    0.0134    0.0241    0.0355
PROBES  81 THRU  88      0.0030    0.0002    0.0010    0.0006    0.0004    0.0003    0.0002    0.0002
PROBES  89 THRU  96      0.0007    0.0003   -0.0001   -0.0000    0.0020    0.0027   -0.0002    0.0024

   AXIAL POSITION # 30, AXIAL LOCATION =  5.50 INCHES, SALT OBSERVED =0.0030 G-SALT/LBM-WATER, SALT MISSED =0.0020 G-SALT/LBM-WATER

PROBES   1 THRU   8      0.0542    0.0360    0.0114    0.0003   -0.0006    0.0004   -0.0001    0.0002
PROBES   9 THRU  16      0.0001   -0.0000    0.0000   -0.0000   -0.0001   -0.0001   -0.0001    0.0003
PROBES  17 THRU  24      0.0002    0.0001    0.0003    0.0002    0.0001    0.0001    0.0029    0.0037
PROBES  25 THRU  32      0.0258    0.0137    0.0068    0.0017   -0.0000   -0.0005    0.0001    0.0001
PROBES  33 THRU  40      0.0046   -0.0001    0.0010    0.0018    0.0002    0.0004    0.0004   -0.0004
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PROBES  41 THRU  48       0.0003    0.0038    0.0001   -0.0003    0.0003    0.0002   -0.0000    0.0003
PROBES  49 THRU  56       0.0547    0.0401    0.0137    0.0006    0.0032    0.0013    0.0000    0.0001
PROBES  57 THRU  64       0.0095    0.0075    0.0032    0.0001    0.0002    0.0003    0.0024    0.0031
PROBES  65 THRU  72       0.0001    0.0019    0.0002    0.0003    0.0002    0.0003    0.0003   -0.0004
PROBES  73 THRU  80       0.0312    0.0002    0.0000    0.0005    0.0000    0.0172    0.0378    0.0568
PROBES  81 THRU  88       0.0047   -0.0001    0.0005   -0.0001    0.0002    0.0004    0.0002    0.0002
PROBES  89 THRU  96       0.0006    0.0002   -0.0002   -0.0005    0.0028    0.0024   -0.0003    0.0035

   AXIAL POSITION # 31, AXIAL LOCATION =  5.25 INCHES, SALT OBSERVED =0.0036 G-SALT/LBM-WATER, SALT MISSED =0.0014 G-SALT/LBM-WATER

PROBES   1 THRU   8       0.0602    0.0460    0.0158    0.0005   -0.0004    0.0004   -0.0002    0.0001
PROBES   9 THRU  16       0.0001   -0.0000   -0.0000   -0.0001   -0.0001   -0.0001   -0.0001    0.0003
PROBES  17 THRU  24       0.0002    0.0001    0.0003    0.0002    0.0001    0.0001    0.0040    0.0040
PROBES  25 THRU  32       0.0194    0.0080    0.0053    0.0014    0.0001    0.0003    0.0001    0.0001
PROBES  33 THRU  40       0.0037   -0.0001    0.0017    0.0036   -0.0000    0.0005    0.0003   -0.0001
PROBES  41 THRU  48       0.0004    0.0030    0.0002   -0.0006    0.0002    0.0001   -0.0002    0.0004
PROBES  49 THRU  56       0.0620    0.0385    0.0107    0.0003    0.0032    0.0009    0.0000    0.0002
PROBES  57 THRU  64       0.0120    0.0077    0.0027    0.0001    0.0002    0.0003    0.0028    0.0034
PROBES  65 THRU  72       0.0001    0.0027    0.0002    0.0003    0.0002    0.0002    0.0002   -0.0004
PROBES  73 THRU  80       0.0395    0.0002    0.0001    0.0005    0.0004    0.0191    0.0524    0.0763
PROBES  81 THRU  88       0.0069   -0.0001    0.0004   -0.0003    0.0001    0.0003    0.0002    0.0002
PROBES  89 THRU  96       0.0007    0.0002   -0.0002   -0.0006    0.0028    0.0035   -0.0003    0.0042
PROBES  97 THRU 104       0.0034    0.0005    0.0001   -0.0001    0.0029   -0.0001    0.0017    0.0018

   AXIAL POSITION # 32, AXIAL LOCATION =  5.00 INCHES, SALT OBSERVED =0.0035 G-SALT/LBM-WATER, SALT MISSED =0.0016 G-SALT/LBM-WATER

PROBES   1 THRU   8       0.0585    0.0457    0.0147    0.0006   -0.0004    0.0003   -0.0002    0.0001
PROBES   9 THRU  16       0.0001   -0.0000   -0.0000   -0.0001   -0.0001   -0.0001   -0.0002    0.0003
PROBES  17 THRU  24       0.0002    0.0001    0.0004    0.0002    0.0001    0.0000    0.0036    0.0034
PROBES  25 THRU  32       0.0215    0.0093    0.0066    0.0027    0.0001    0.0006    0.0001    0.0001
PROBES  33 THRU  40       0.0037   -0.0002    0.0024    0.0036   -0.0000    0.0006    0.0003   -0.0004
PROBES  41 THRU  48       0.0004    0.0044    0.0002   -0.0004    0.0002    0.0001   -0.0005    0.0004
PROBES  49 THRU  56       0.0608    0.0535    0.0181    0.0008    0.0039    0.0032   -0.0000    0.0001
PROBES  57 THRU  64       0.0131    0.0096    0.0050    0.0001    0.0002    0.0003    0.0024    0.0037
PROBES  65 THRU  72       0.0002    0.0034    0.0002    0.0003    0.0002    0.0002    0.0002   -0.0004
PROBES  73 THRU  80       0.0337    0.0003    0.0000    0.0005    0.0002    0.0194    0.0456    0.0627
PROBES  81 THRU  88       0.0050   -0.0001    0.0002    0.0001    0.0003    0.0003    0.0003    0.0001
PROBES  89 THRU  96       0.0005    0.0002   -0.0002   -0.0007    0.0024    0.0035   -0.0003    0.0046

   AXIAL POSITION # 33, AXIAL LOCATION =  4.75 INCHES, SALT OBSERVED =0.0038 G-SALT/LBM-WATER, SALT MISSED =0.0012 G-SALT/LBM-WATER

PROBES   1 THRU   8       0.0668    0.0623    0.0217    0.0022    0.0005    0.0004   -0.0002    0.0002
PROBES   9 THRU  16       0.0001   -0.0000   -0.0000   -0.0002   -0.0001   -0.0001   -0.0002    0.0003
PROBES  17 THRU  24       0.0002    0.0000    0.0004    0.0002    0.0001    0.0000    0.0040    0.0043
PROBES  25 THRU  32       0.0074    0.0002    0.0048    0.0033    0.0001    0.0010    0.0001    0.0001
PROBES  33 THRU  40       0.0043   -0.0001    0.0027    0.0044   -0.0000    0.0006    0.0003   -0.0001
PROBES  41 THRU  48       0.0004    0.0036    0.0002   -0.0004    0.0002    0.0001   -0.0003    0.0004
PROBES  49 THRU  56       0.0756    0.0338    0.0075    0.0002    0.0029    0.0018    0.0000   -0.0000
PROBES  57 THRU  64       0.0164    0.0073    0.0020    0.0001    0.0002    0.0003    0.0024    0.0037
PROBES  65 THRU  72       0.0002    0.0034    0.0002    0.0003    0.0002    0.0003    0.0002   -0.0007
PROBES  73 THRU  80       0.0407    0.0004    0.0000    0.0006    0.0008    0.0270    0.0640    0.0910
PROBES  81 THRU  88       0.0073   -0.0002    0.0004   -0.0000    0.0003    0.0003    0.0003    0.0002
PROBES  89 THRU  96       0.0006    0.0002   -0.0002   -0.0007    0.0028    0.0035   -0.0003    0.0049

   AXIAL POSITION # 34, AXIAL LOCATION =  4.50 INCHES, SALT OBSERVED =0.0034 G-SALT/LBM-WATER, SALT MISSED =0.0016 G-SALT/LBM-WATER

PROBES   1 THRU   8       0.0288    0.0242    0.0086    0.0010   -0.0005    0.0004   -0.0002    0.0001
PROBES   9 THRU  16       0.0001   -0.0000   -0.0001   -0.0002   -0.0001   -0.0001   -0.0002    0.0003
PROBES  17 THRU  24       0.0003    0.0001    0.0004    0.0003    0.0001   -0.0000    0.0050    0.0037
PROBES  25 THRU  32       0.0084    0.0058    0.0062    0.0042   -0.0000    0.0019    0.0001    0.0001
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PROBES  33 THRU  40     0.0040  -0.0002   0.0030   0.0027  -0.0001   0.0005   0.0002  -0.0002
PROBES  41 THRU  48     0.0004   0.0049   0.0002  -0.0003   0.0002   0.0001  -0.0002   0.0005
PROBES  49 THRU  56     0.0792   0.0327   0.0120   0.0004   0.0036   0.0040  -0.0001  -0.0000
PROBES  57 THRU  64     0.0209   0.0087   0.0035   0.0001   0.0002   0.0004   0.0031   0.0046
PROBES  65 THRU  72     0.0001   0.0040   0.0002   0.0004   0.0002   0.0004   0.0002  -0.0007
PROBES  73 THRU  80     0.0463   0.0003  -0.0000   0.0006   0.0007   0.0239   0.0554   0.0834
PROBES  81 THRU  88     0.0124  -0.0003   0.0002  -0.0000   0.0001   0.0004   0.0004   0.0001
PROBES  89 THRU  96     0.0005   0.0002  -0.0001  -0.0005   0.0028   0.0041  -0.0003   0.0049

   AXIAL POSITION # 35, AXIAL LOCATION =  4.25 INCHES, SALT OBSERVED =0.0035 G-SALT/LBM-WATER, SALT MISSED =0.0015 G-SALT/LBM-WATER

PROBES   1 THRU   8     0.0126   0.0081   0.0013  -0.0004  -0.0006   0.0004  -0.0002   0.0001
PROBES   9 THRU  16     0.0001  -0.0000  -0.0000  -0.0001  -0.0001  -0.0001  -0.0002   0.0003
PROBES  17 THRU  24     0.0003   0.0000   0.0005   0.0003   0.0001  -0.0000   0.0047   0.0048
PROBES  25 THRU  32     0.0236   0.0159   0.0066   0.0027   0.0000   0.0013   0.0001   0.0001
PROBES  33 THRU  40     0.0052  -0.0002   0.0033   0.0036  -0.0001   0.0003   0.0002  -0.0002
PROBES  41 THRU  48     0.0004   0.0033   0.0001  -0.0006   0.0004   0.0001  -0.0005   0.0005
PROBES  49 THRU  56     0.0868   0.0754   0.0276   0.0004   0.0042   0.0036  -0.0001   0.0000
PROBES  57 THRU  64     0.0291   0.0124   0.0098   0.0001   0.0002   0.0004   0.0024   0.0046
PROBES  65 THRU  72     0.0001   0.0037   0.0002   0.0004   0.0003   0.0003   0.0002  -0.0007
PROBES  73 THRU  80     0.0583   0.0204  -0.0000   0.0005  -0.0000   0.0152   0.0304   0.0487
PROBES  81 THRU  88     0.0166  -0.0003   0.0001   0.0003   0.0002   0.0004   0.0004   0.0000
PROBES  89 THRU  96     0.0004   0.0002  -0.0000  -0.0007   0.0039   0.0041  -0.0003   0.0049

   AXIAL POSITION # 36, AXIAL LOCATION =  4.00 INCHES, SALT OBSERVED =0.0026 G-SALT/LBM-WATER, SALT MISSED =0.0024 G-SALT/LBM-WATER

PROBES   1 THRU   8     0.0273   0.0054   0.0006  -0.0004  -0.0005   0.0004  -0.0001   0.0001
PROBES   9 THRU  16     0.0001  -0.0000  -0.0001  -0.0001  -0.0001  -0.0001  -0.0002   0.0003
PROBES  17 THRU  24     0.0003   0.0000   0.0005   0.0003   0.0001  -0.0000   0.0047   0.0043
PROBES  25 THRU  32     0.0341   0.0208   0.0074   0.0036  -0.0000   0.0026   0.0001   0.0001
PROBES  33 THRU  40     0.0046  -0.0002   0.0027   0.0027  -0.0001   0.0005   0.0002  -0.0002
PROBES  41 THRU  48     0.0004   0.0036   0.0001  -0.0004   0.0002   0.0001  -0.0004   0.0005
PROBES  49 THRU  56     0.0369   0.0908   0.0339   0.0011   0.0045   0.0044  -0.0001  -0.0000
PROBES  57 THRU  64     0.0112   0.0143   0.0161   0.0001   0.0002   0.0004   0.0034   0.0049
PROBES  65 THRU  72     0.0002   0.0046   0.0002   0.0004   0.0002   0.0004   0.0002  -0.0008
PROBES  73 THRU  80     0.0229   0.0003   0.0000   0.0005  -0.0002   0.0040   0.0009   0.0070
PROBES  81 THRU  88     0.0031  -0.0002   0.0003  -0.0000   0.0003   0.0004   0.0003   0.0000
PROBES  89 THRU  96     0.0005   0.0002  -0.0001  -0.0005   0.0032   0.0048  -0.0003   0.0049

   AXIAL POSITION # 37, AXIAL LOCATION =  3.75 INCHES, SALT OBSERVED =0.0025 G-SALT/LBM-WATER, SALT MISSED =0.0025 G-SALT/LBM-WATER

PROBES   1 THRU   8     0.0481   0.0070   0.0008  -0.0004  -0.0006   0.0004  -0.0002   0.0001
PROBES   9 THRU  16     0.0001   0.0000   0.0000  -0.0001  -0.0001  -0.0001  -0.0002   0.0003
PROBES  17 THRU  24     0.0002   0.0001   0.0004   0.0003   0.0001  -0.0000   0.0043   0.0043
PROBES  25 THRU  32     0.0671   0.0571   0.0107   0.0044  -0.0001   0.0023   0.0001   0.0001
PROBES  33 THRU  40     0.0057  -0.0002   0.0033   0.0036  -0.0001   0.0006   0.0002  -0.0003
PROBES  41 THRU  48     0.0003   0.0054   0.0001  -0.0007   0.0002   0.0001  -0.0005   0.0007
PROBES  49 THRU  56     0.0016   0.0661   0.0342   0.0066   0.0051   0.0027  -0.0000  -0.0000
PROBES  57 THRU  64    -0.0004   0.0112   0.0078   0.0001   0.0002   0.0004   0.0034   0.0051
PROBES  65 THRU  72     0.0001   0.0040   0.0002   0.0004   0.0002   0.0004   0.0002  -0.0008
PROBES  73 THRU  80    -0.0000   0.0002   0.0000   0.0005  -0.0001   0.0034   0.0004   0.0067
PROBES  81 THRU  88     0.0003  -0.0001   0.0001   0.0003   0.0002   0.0005   0.0002   0.0000

   AXIAL POSITION # 38, AXIAL LOCATION =  3.50 INCHES, SALT OBSERVED =0.0026 G-SALT/LBM-WATER, SALT MISSED =0.0024 G-SALT/LBM-WATER

PROBES   1 THRU   8     0.0632   0.0083   0.0009  -0.0004  -0.0006   0.0004  -0.0002   0.0001
PROBES   9 THRU  16     0.0002  -0.0000  -0.0000  -0.0001  -0.0001  -0.0001  -0.0002   0.0003
PROBES  17 THRU  24     0.0002   0.0000   0.0005   0.0003   0.0001  -0.0000   0.0043   0.0037
PROBES  25 THRU  32     0.0876   0.0821   0.0117   0.0039  -0.0000   0.0034   0.0001   0.0001
PROBES  33 THRU  40     0.0062  -0.0002   0.0030   0.0031  -0.0001   0.0007   0.0002  -0.0003
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PROBES  41 THRU  48       0.0004     0.0063     0.0002    -0.0007     0.0005     0.0001    -0.0005     0.0007
PROBES  49 THRU  56      -0.0006     0.0289     0.0260     0.0086     0.0042     0.0040    -0.0001    -0.0001
PROBES  57 THRU  64      -0.0005     0.0039     0.0008     0.0001     0.0002     0.0004     0.0034     0.0051
PROBES  65 THRU  72       0.0001     0.0040     0.0002     0.0004     0.0003     0.0004     0.0002    -0.0008
PROBES  73 THRU  80      -0.0000     0.0002    -0.0000     0.0006    -0.0001     0.0040     0.0004     0.0047
PROBES  81 THRU  88       0.0003    -0.0003     0.0001    -0.0000     0.0001     0.0005     0.0002     0.0000
PROBES  89 THRU  96       0.0003     0.0002    -0.0002    -0.0007     0.0036     0.0045    -0.0003     0.0058

   AXIAL POSITION # 39, AXIAL LOCATION =  3.25 INCHES, SALT OBSERVED =0.0024 G-SALT/LBM-WATER, SALT MISSED =0.0026 G-SALT/LBM-WATER

PROBES   1 THRU   8       0.0569     0.0074     0.0007    -0.0004    -0.0005     0.0003    -0.0001     0.0002
PROBES   9 THRU  16       0.0002    -0.0000    -0.0000    -0.0001    -0.0001    -0.0001    -0.0002     0.0003
PROBES  17 THRU  24       0.0002     0.0001     0.0004     0.0003     0.0001    -0.0000     0.0047     0.0043
PROBES  25 THRU  32       0.0759     0.0771     0.0120     0.0047    -0.0001     0.0029     0.0001     0.0001
PROBES  33 THRU  40       0.0059    -0.0002     0.0030     0.0031    -0.0001     0.0007     0.0002    -0.0003
PROBES  41 THRU  48       0.0004     0.0061     0.0002    -0.0003     0.0002     0.0001    -0.0005     0.0008
PROBES  49 THRU  56      -0.0007     0.0264     0.0331     0.0103     0.0042     0.0040    -0.0001    -0.0000
PROBES  57 THRU  64      -0.0004     0.0041     0.0005     0.0001     0.0002     0.0004     0.0034     0.0049
PROBES  65 THRU  72       0.0002     0.0046     0.0002     0.0004     0.0003     0.0003     0.0002    -0.0008
PROBES  73 THRU  80      -0.0000     0.0003    -0.0000     0.0005    -0.0001     0.0037     0.0004     0.0015
PROBES  81 THRU  88       0.0003    -0.0002     0.0000     0.0001     0.0001     0.0004     0.0002     0.0001
PROBES  89 THRU  96       0.0004     0.0002    -0.0001    -0.0006     0.0042     0.0038    -0.0003     0.0055

   AXIAL POSITION # 40, AXIAL LOCATION =  3.00 INCHES, SALT OBSERVED =0.0024 G-SALT/LBM-WATER, SALT MISSED =0.0026 G-SALT/LBM-WATER

PROBES   1 THRU   8       0.0308     0.0054     0.0005    -0.0004    -0.0006     0.0003    -0.0001     0.0002
PROBES   9 THRU  16       0.0001    -0.0000    -0.0001    -0.0002    -0.0001    -0.0001    -0.0002     0.0003
PROBES  17 THRU  24       0.0002     0.0001     0.0005     0.0003     0.0001    -0.0000     0.0047     0.0037
PROBES  25 THRU  32       0.0539     0.0816     0.0140     0.0059    -0.0001     0.0026     0.0001     0.0001
PROBES  33 THRU  40       0.0064    -0.0002     0.0030     0.0055    -0.0001     0.0004     0.0002    -0.0002
PROBES  41 THRU  48       0.0004     0.0063     0.0002    -0.0006     0.0004     0.0001    -0.0005     0.0009
PROBES  49 THRU  56      -0.0008     0.0197     0.0641     0.0295     0.0059     0.0023    -0.0001    -0.0000
PROBES  57 THRU  64      -0.0004     0.0028     0.0004     0.0001     0.0002     0.0004     0.0034     0.0040
PROBES  65 THRU  72       0.0001     0.0037     0.0002     0.0004     0.0002     0.0004     0.0002    -0.0008
PROBES  73 THRU  80      -0.0000     0.0003     0.0000     0.0005    -0.0001     0.0029     0.0004     0.0002
PROBES  81 THRU  88       0.0003    -0.0002     0.0004    -0.0000     0.0003     0.0004     0.0002     0.0001
PROBES  89 THRU  96       0.0004     0.0002    -0.0001    -0.0006     0.0042     0.0038    -0.0003     0.0055

   AXIAL POSITION # 41, AXIAL LOCATION =  2.75 INCHES, SALT OBSERVED =0.0025 G-SALT/LBM-WATER, SALT MISSED =0.0025 G-SALT/LBM-WATER

PROBES   1 THRU   8       0.0723     0.0066     0.0008    -0.0004    -0.0005     0.0004    -0.0001     0.0001
PROBES   9 THRU  16       0.0002    -0.0000    -0.0000    -0.0001    -0.0001    -0.0001    -0.0001     0.0003
PROBES  17 THRU  24       0.0002     0.0001     0.0004     0.0003     0.0001    -0.0000     0.0050     0.0031
PROBES  25 THRU  32       0.0828     0.0776     0.0123     0.0039    -0.0000     0.0034     0.0001     0.0001
PROBES  33 THRU  40       0.0059    -0.0002     0.0027     0.0051    -0.0001     0.0006     0.0002    -0.0003
PROBES  41 THRU  48       0.0003     0.0059     0.0002    -0.0005     0.0004     0.0001    -0.0005     0.0008
PROBES  49 THRU  56      -0.0006     0.0289     0.0214     0.0097     0.0039     0.0027    -0.0000    -0.0000
PROBES  57 THRU  64      -0.0004     0.0038     0.0004     0.0002     0.0002     0.0004     0.0031     0.0043
PROBES  65 THRU  72       0.0001     0.0040     0.0002     0.0004     0.0002     0.0004     0.0002    -0.0007
PROBES  73 THRU  80      -0.0000     0.0003     0.0000     0.0005    -0.0001     0.0031     0.0004     0.0003
PROBES  81 THRU  88       0.0003    -0.0002     0.0004    -0.0000     0.0003     0.0004     0.0002     0.0001
PROBES  89 THRU  96       0.0007     0.0002    -0.0001    -0.0007     0.0039     0.0045    -0.0003     0.0046

   AXIAL POSITION # 42, AXIAL LOCATION =  2.50 INCHES, SALT OBSERVED =0.0022 G-SALT/LBM-WATER, SALT MISSED =0.0028 G-SALT/LBM-WATER

PROBES   1 THRU   8       0.0456     0.0061     0.0006    -0.0004    -0.0006     0.0004    -0.0002     0.0001
PROBES   9 THRU  16       0.0001    -0.0000    -0.0001    -0.0002    -0.0001    -0.0001    -0.0002     0.0003
PROBES  17 THRU  24       0.0002     0.0001     0.0005     0.0002     0.0001    -0.0000     0.0050     0.0034
PROBES  25 THRU  32.      0.0719     0.1048     0.0130     0.0050    -0.0001     0.0029     0.0001     0.0001
PROBES  33 THRU  40       0.0052    -0.0002     0.0030     0.0031    -0.0001     0.0007     0.0003    -0.0003
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PROBES  41 THRU  48      0.0004     0.0054     0.0002    -0.0003     0.0002     0.0001    -0.0005     0.0006
PROBES  49 THRU  56     -0.0008     0.0151     0.0033     0.0070     0.0045     0.0348    -0.0001    -0.0001
PROBES  57 THRU  64     -0.0004     0.0041     0.0004     0.0001     0.0002     0.0004     0.0034     0.0040
PROBES  65 THRU  72      0.0001     0.0037     0.0002     0.0006     0.0002     0.0003     0.0002    -0.0008
PROBES  73 THRU  80     -0.0000     0.0002    -0.0000     0.0005    -0.0001     0.0034     0.0003     0.0002
PROBES  81 THRU  88      0.0003    -0.0002     0.0002     0.0001     0.0001     0.0004     0.0002     0.0001
PROBES  89 THRU  96      0.0005     0.0002    -0.0001    -0.0006     0.0042     0.0038    -0.0003     0.0052

   AXIAL POSITION # 43, AXIAL LOCATION =  2.25 INCHES, SALT OBSERVED =0.0025 G-SALT/LBM-WATER, SALT MISSED =0.0025 G-SALT/LBM-WATER

PROBES   1 THRU   8      0.0695     0.0066     0.0009    -0.0004    -0.0006     0.0004    -0.0002     0.0001
PROBES   9 THRU  16      0.0001    -0.0000    -0.0001    -0.0001    -0.0001    -0.0001    -0.0002     0.0003
PROBES  17 THRU  24      0.0002     0.0001     0.0004     0.0003     0.0001     0.0000     0.0047     0.0043
PROBES  25 THRU  32      0.0965     0.1010     0.0105     0.0052    -0.0001     0.0032     0.0001     0.0002
PROBES  33 THRU  40      0.0052    -0.0002     0.0036     0.0047    -0.0001     0.0005     0.0002    -0.0003
PROBES  41 THRU  48      0.0004     0.0049     0.0002    -0.0006     0.0004     0.0001    -0.0005     0.0006
PROBES  49 THRU  56     -0.0008     0.0174     0.0005     0.0009     0.0051     0.0032    -0.0001    -0.0001
PROBES  57 THRU  64     -0.0005     0.0032     0.0005     0.0001     0.0002     0.0005     0.0034     0.0040
PROBES  65 THRU  72      0.0001     0.0049     0.0002     0.0005     0.0002     0.0004     0.0002    -0.0008
PROBES  73 THRU  80     -0.0000     0.0002    -0.0000     0.0006    -0.0001     0.0037     0.0004     0.0002
PROBES  81 THRU  88      0.0003    -0.0002     0.0003    -0.0000     0.0001     0.0005     0.0003     0.0000
PROBES  89 THRU  96      0.0004     0.0002    -0.0002    -0.0007     0.0039     0.0051    -0.0003     0.0055

   AXIAL POSITION # 44, AXIAL LOCATION =  2.00 INCHES, SALT OBSERVED =0.0022 G-SALT/LBM-WATER, SALT MISSED =0.0028 G-SALT/LBM-WATER

PROBES   1 THRU   8      0.1029     0.0085     0.0012    -0.0004    -0.0006     0.0005    -0.0001     0.0001
PROBES   9 THRU  16      0.0001    -0.0000    -0.0001    -0.0002    -0.0001    -0.0001    -0.0002     0.0004
PROBES  17 THRU  24      0.0002     0.0001     0.0005     0.0003     0.0002    -0.0000     0.0056     0.0040
PROBES  25 THRU  32      0.0970     0.0311     0.0066     0.0042    -0.0000     0.0032     0.0001     0.0001
PROBES  33 THRU  40      0.0043    -0.0002     0.0024     0.0058    -0.0001     0.0007     0.0002    -0.0003
PROBES  41 THRU  48      0.0005     0.0041     0.0002    -0.0005     0.0005     0.0001    -0.0003     0.0006
PROBES  49 THRU  56     -0.0008     0.0202     0.0006     0.0001     0.0036     0.0027    -0.0001    -0.0001
PROBES  57 THRU  64     -0.0005     0.0032     0.0005     0.0001     0.0002     0.0004     0.0037     0.0043
PROBES  65 THRU  72      0.0001     0.0043     0.0002     0.0004     0.0002     0.0004     0.0002    -0.0006
PROBES  73 THRU  80     -0.0000     0.0005     0.0000     0.0005    -0.0001     0.0037     0.0004     0.0002
PROBES  81 THRU  88      0.0003    -0.0002     0.0000     0.0001     0.0002     0.0005     0.0002     0.0001
PROBES  89 THRU  96      0.0005     0.0002    -0.0001    -0.0005     0.0036     0.0045    -0.0003     0.0055

   AXIAL POSITION # 45, AXIAL LOCATION =  1.75 INCHES, SALT OBSERVED =0.0019 G-SALT/LBM-WATER, SALT MISSED =0.0031 G-SALT/LBM-WATER

PROBES   1 THRU   8      0.0691     0.0070     0.0009    -0.0004    -0.0006     0.0005    -0.0001     0.0001
PROBES   9 THRU  16      0.0001    -0.0000    -0.0001    -0.0001    -0.0001    -0.0001    -0.0002     0.0003
PROBES  17 THRU  24      0.0002     0.0001     0.0004     0.0003     0.0001    -0.0000     0.0043     0.0037
PROBES  25 THRU  32      0.0381     0.0001     0.0045     0.0042    -0.0000     0.0029     0.0001     0.0001
PROBES  33 THRU  40      0.0028    -0.0002     0.0033     0.0036    -0.0001     0.0004     0.0002    -0.0003
PROBES  41 THRU  48      0.0004     0.0030     0.0001    -0.0006     0.0005     0.0001    -0.0003     0.0004
PROBES  49 THRU  56      0.0026     0.0985     0.0005     0.0001     0.0048     0.0048    -0.0001    -0.0001
PROBES  57 THRU  64     -0.0005     0.0035     0.0005     0.0002     0.0002     0.0004     0.0031     0.0043
PROBES  65 THRU  72      0.0001     0.0037     0.0002     0.0003     0.0002     0.0003     0.0002    -0.0007
PROBES  73 THRU  80     -0.0000     0.0004     0.0000     0.0005    -0.0001     0.0037     0.0004     0.0026
PROBES  81 THRU  88      0.0003    -0.0002     0.0002     0.0001     0.0001     0.0004     0.0002     0.0001
PROBES  89 THRU  96      0.0005     0.0002    -0.0001    -0.0005     0.0036     0.0041    -0.0003     0.0049

   AXIAL POSITION # 46, AXIAL LOCATION =  1.50 INCHES, SALT OBSERVED =0.0015 G-SALT/LBM-WATER, SALT MISSED =0.0035 G-SALT/LBM-WATER

PROBES   1 THRU   8      0.0019     0.0041     0.0004    -0.0004    -0.0004     0.0004    -0.0001     0.0002
PROBES   9 THRU  16      0.0001    -0.0000    -0.0000    -0.0001    -0.0001    -0.0001    -0.0002     0.0004
PROBES  17 THRU  24      0.0002     0.0000     0.0005     0.0003     0.0001    -0.0000     0.0047     0.0043
PROBES  25 THRU  32      0.0017    -0.0002     0.0043     0.0039    -0.0000     0.0019     0.0001     0.0001
PROBES  33 THRU  40      0.0031    -0.0002     0.0027     0.0051    -0.0001     0.0005     0.0002    -0.0002
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PROBES  41 THRU  48     0.0004    0.0023    0.0002   -0.0005    0.0003    0.0001   -0.0003    0.0005
PROBES  49 THRU  56     0.0113    0.1230    0.0007    0.0001    0.0042    0.0040   -0.0001   -0.0000
PROBES  57 THRU  64    -0.0005    0.0032    0.0005    0.0002    0.0002    0.0004    0.0028    0.0037
PROBES  65 THRU  72     0.0002    0.0034    0.0002    0.0004    0.0002    0.0003    0.0002   -0.0007
PROBES  73 THRU  80    -0.0000    0.0004    0.0001    0.0005   -0.0001    0.0040    0.0004    0.0125
PROBES  81 THRU  88     0.0003   -0.0001    0.0001    0.0003    0.0002    0.0005    0.0002    0.0001
PROBES  89 THRU  96     0.0006    0.0002   -0.0001   -0.0008    0.0036    0.0041   -0.0003    0.0049

   AXIAL POSITION # 47, AXIAL LOCATION =  1.25 INCHES, SALT OBSERVED =0.0015 G-SALT/LBM-WATER, SALT MISSED =0.0035 G-SALT/LBM-WATER

PROBES   1 THRU   8     0.0004    0.0038    0.0006   -0.0004   -0.0005    0.0005   -0.0001    0.0001
PROBES   9 THRU  16     0.0001   -0.0000   -0.0000   -0.0001   -0.0001   -0.0001   -0.0001    0.0003
PROBES  17 THRU  24     0.0002    0.0000    0.0005    0.0003    0.0001   -0.0000    0.0043    0.0031
PROBES  25 THRU  32     0.0002   -0.0002    0.0040    0.0036   -0.0000    0.0019    0.0001    0.0001
PROBES  33 THRU  40     0.0031   -0.0002    0.0024    0.0047   -0.0001    0.0006    0.0002   -0.0003
PROBES  41 THRU  48     0.0004    0.0033    0.0002   -0.0006    0.0004    0.0001   -0.0003    0.0004
PROBES  49 THRU  56     0.0154    0.1237    0.0006    0.0001    0.0039    0.0018   -0.0000   -0.0000
PROBES  57 THRU  64    -0.0006    0.0028    0.0004    0.0001    0.0002    0.0004    0.0021    0.0040
PROBES  65 THRU  72     0.0002    0.0043    0.0002    0.0004    0.0002    0.0003    0.0002   -0.0007
PROBES  73 THRU  80    -0.0000    0.0003    0.0001    0.0006   -0.0001    0.0040    0.0004    0.0144
PROBES  81 THRU  88     0.0003   -0.0001    0.0005   -0.0003    0.0002    0.0004    0.0002    0.0000
PROBES  89 THRU  96     0.0007    0.0002    0.0000   -0.0005    0.0036    0.0038   -0.0003    0.0042

   AXIAL POSITION # 48, AXIAL LOCATION =  1.00 INCHES, SALT OBSERVED =0.0019 G-SALT/LBM-WATER, SALT MISSED =0.0031 G-SALT/LBM-WATER

PROBES   1 THRU   8     0.0004    0.0033    0.0006   -0.0004   -0.0005    0.0004   -0.0001    0.0001
PROBES   9 THRU  16     0.0001   -0.0000    0.0000   -0.0000   -0.0001   -0.0001   -0.0001    0.0003
PROBES  17 THRU  24     0.0002    0.0000    0.0005    0.0003    0.0001   -0.0000    0.0040    0.0034
PROBES  25 THRU  32     0.0001   -0.0002    0.0037    0.0036   -0.0000    0.0019    0.0001    0.0001
PROBES  33 THRU  40     0.0031   -0.0002    0.0033    0.0036   -0.0001    0.0003    0.0002   -0.0002
PROBES  41 THRU  48     0.0004    0.0027    0.0002   -0.0006    0.0004    0.0001   -0.0003    0.0004
PROBES  49 THRU  56     0.0100    0.2027    0.0006    0.0001    0.0036    0.0040   -0.0001   -0.0000
PROBES  57 THRU  64    -0.0005    0.0038    0.0005    0.0002    0.0002    0.0004    0.0024    0.0040
PROBES  65 THRU  72     0.0002    0.0034    0.0002    0.0004    0.0002    0.0004    0.0002   -0.0007
PROBES  73 THRU  80    -0.0000    0.0004    0.0001    0.0006   -0.0001    0.0029    0.0004    0.0088
PROBES  81 THRU  88     0.0003   -0.0001    0.0003   -0.0000    0.0003    0.0004    0.0002    0.0001
PROBES  89 THRU  96     0.0005    0.0002   -0.0000   -0.0006    0.0036    0.0038   -0.0003    0.0042


**THE FOLLOWING PROBES HAVE FAILED AND WERE NOT
  INCLUDED IN THE MASS BALANCE CALCULATIONS:



**AXIAL CONCENTRATION PROFILES PLOTTED FOR THE FOLLOWING SUBCHANNELS:
             1             2             3             4
            25            26            27            28
            73            74            75            76
            49            50            51            52
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A5.3. Edge Injection Mixing Data (gm/lbm)

Injection Subchannel: 114

Reynolds Number: 1542

Flow Rate: 25 gpm

Injection Concentration: 25 gm/lbm

Injection Flow Rate: 0.049 lbm/min

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**SALT CONCENTRATIONS FOLLOW:

   AXIAL POSITION #  1, AXIAL LOCATION = 42.00 INCHES, SALT OBSERVED =0.0053 G-SALT/LBM-WATER, SALT MISSED =0.0006 G-SALT/LBM-WATER

PROBES   1 THRU   8        0.0004     0.0052     0.0009    -0.0004    -0.0006     0.0007    -0.0002     0.0002
PROBES   9 THRU  16        0.0001    -0.0000    -0.0001    -0.0002    -0.0001    -0.0000    -0.0001     0.0007
PROBES  17 THRU  24        0.0005     0.0001     0.0005     0.0004     0.0002     0.0001     0.0076     0.0058
PROBES  25 THRU  32        0.0003    -0.0002     0.0060     0.0057    -0.0001     0.0043     0.0002     0.0002
PROBES  33 THRU  40        0.0062    -0.0002     0.0042     0.0074    -0.0001     0.0007     0.0002    -0.0005
PROBES  41 THRU  48        0.0006     0.0056     0.0002    -0.0007     0.0006     0.0001    -0.0005     0.0006
PROBES  49 THRU  56       -0.0006     0.0062     0.0010     0.0002     0.0059     0.0065    -0.0000    -0.0001
PROBES  57 THRU  64       -0.0000     0.0092     0.0016     0.0006     0.0005     0.0012     0.0056     0.0106
PROBES  65 THRU  72        0.0022     0.0083     0.0004     0.0005     0.0052     0.0017     0.0006    -0.0008
PROBES  73 THRU  80        0.0019     0.0030     0.0013     0.0015     0.0002     0.0061     0.0009     0.0004
PROBES  81 THRU  88        0.0013     0.0012     0.0004     0.0016     0.0063     0.0060     0.0040     0.0074
PROBES  89 THRU  96        0.0042     0.0224     0.0185     0.0091     0.0169     0.0177     0.0265     0.0228
PROBES  97 THRU 104        0.0130     0.0006     0.0003     0.0006     0.0048    -0.0003     0.0041     0.0043
PROBES 105 THRU 112        0.0064     0.0003     0.0101     0.0005    -0.0000     0.0015     0.0031     0.0016
PROBES 113 THRU 120        0.0005    -0.0011     0.0026     0.0084     0.0327     0.0472     0.0433     0.0240
PROBES 121 THRU 126        0.0195     0.0041    -0.0007     0.0006     0.0008     0.0117

   AXIAL POSITION #  2, AXIAL LOCATION = 36.00 INCHES, SALT OBSERVED =0.0046 G-SALT/LBM-WATER, SALT MISSED =0.0012 G-SALT/LBM-WATER

PROBES   1 THRU   8        0.0004     0.0046     0.0008    -0.0004    -0.0006     0.0007    -0.0002     0.0001
PROBES   9 THRU  16        0.0003    -0.0000    -0.0001    -0.0002    -0.0000     0.0001    -0.0001     0.0006
PROBES  17 THRU  24        0.0006     0.0002     0.0006     0.0004     0.0002     0.0001     0.0076     0.0061
PROBES  25 THRU  32        0.0002    -0.0002     0.0055     0.0054    -0.0001     0.0045     0.0002     0.0002
PROBES  33 THRU  40        0.0057    -0.0002     0.0039     0.0061    -0.0001     0.0006     0.0002    -0.0005
PROBES  41 THRU  48        0.0005     0.0054     0.0002    -0.0006     0.0005     0.0001    -0.0005     0.0005
PROBES  49 THRU  56       -0.0008     0.0052     0.0006     0.0001     0.0051     0.0058    -0.0001    -0.0001
PROBES  57 THRU  64       -0.0005     0.0073     0.0010     0.0003     0.0005     0.0010     0.0048     0.0099
PROBES  65 THRU  72        0.0018     0.0077     0.0003     0.0004     0.0059     0.0012     0.0003    -0.0008
PROBES  73 THRU  80        0.0011     0.0009     0.0001     0.0008    -0.0001     0.0055     0.0008     0.0004
PROBES  81 THRU  88        0.0011     0.0001    -0.0002    -0.0003     0.0017     0.0056     0.0026     0.0047
PROBES  89 THRU  96        0.0018     0.0149     0.0110     0.0066     0.0166     0.0160     0.0254     0.0209
PROBES  97 THRU 104        0.0077     0.0005     0.0003     0.0007     0.0046    -0.0004     0.0038     0.0043
PROBES 105 THRU 112        0.0004     0.0003     0.0045     0.0003    -0.0001     0.0005     0.0001     0.0011
PROBES 113 THRU 120        0.0006    -0.0011     0.0034     0.0158     0.0467     0.0521     0.0306.    0.0126
PROBES 121 THRU 126        0.0020     0.0020    -0.0007     0.0004     0.0007     0.0192

   AXIAL POSITION #  3, AXIAL LOCATION = 30.00 INCHES, SALT OBSERVED =0.0040 G-SALT/LBM-WATER, SALT MISSED =0.0018 G-SALT/LBM-WATER

PROBES   1 THRU   8        0.0003     0.0017     0.0004    -0.0001    -0.0003     0.0003    -0.0001     0.0003
PROBES   9 THRU  16        0.0001     0.0000     0.0002     0.0001     0.0000    -0.0001    -0.0001     0.0003
PROBES  17 THRU  24        0.0001     0.0001     0.0004     0.0002     0.0001     0.0001     0.0043     0.0031
PROBES  25 THRU  32        0.0002    -0.0002     0.0032     0.0014     0.0001     0.0003     0.0001     0.0001
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PROBES  33 THRU  40      0.0021    0.0001    0.0010    0.0031    0.0001    0.0004    0.0004   -0.0001
PROBES  41 THRU  48      0.0003    0.0038    0.0001   -0.0005    0.0002    0.0002    0.0001    0.0003
PROBES  49 THRU  56     -0.0006    0.0031    0.0004    0.0001    0.0039    0.0032    0.0000   -0.0001
PROBES  57 THRU  64     -0.0004    0.0041    0.0004    0.0001    0.0002    0.0004    0.0021    0.0073
PROBES  65 THRU  72      0.0006    0.0037    0.0002    0.0003    0.0029    0.0004    0.0002   -0.0005
PROBES  73 THRU  80      0.0001    0.0002    0.0000    0.0005   -0.0001    0.0029    0.0003    0.0001
PROBES  81 THRU  88      0.0003   -0.0003   -0.0003   -0.0006   -0.0001    0.0027    0.0013    0.0025
PROBES  89 THRU  96      0.0002    0.0090    0.0054    0.0051    0.0167    0.0156    0.0286    0.0237
PROBES  97 THRU 104      0.0049    0.0003    0.0000   -0.0001    0.0017   -0.0002    0.0014    0.0011
PROBES 105 THRU 112      0.0002    0.0003    0.0024    0.0002    0.0003    0.0002    0.0000    0.0004
PROBES 113 THRU 120      0.0002   -0.0008    0.0028    0.0250    0.0606    0.0546    0.0219    0.0064
PROBES 121 THRU 126     -0.0001    0.0016   -0.0003    0.0002    0.0002    0.0257

   AXIAL POSITION #  4, AXIAL LOCATION = 24.00 INCHES, SALT OBSERVED =0.0040 G-SALT/LBM-WATER, SALT MISSED =0.0019 G-SALT/LBM-WATER

PROBES   1 THRU   8      0.0004    0.0013    0.0004   -0.0001   -0.0003    0.0003   -0.0001    0.0003
PROBES   9 THRU  16      0.0001    0.0000    0.0002    0.0000   -0.0000   -0.0001   -0.0001    0.0003
PROBES  17 THRU  24      0.0002    0.0001    0.0003    0.0002    0.0002    0.0000    0.0036    0.0024
PROBES  25 THRU  32      0.0001   -0.0001    0.0023    0.0027    0.0001    0.0003    0.0001    0.0001
PROBES  33 THRU  40      0.0028   -0.0002    0.0014    0.0027    0.0001    0.0004    0.0004   -0.0001
PROBES  41 THRU  48      0.0003    0.0038    0.0001   -0.0001    0.0003    0.0002    0.0000    0.0003
PROBES  49 THRU  56     -0.0004    0.0014    0.0004    0.0001    0.0032    0.0013    0.0001    0.0001
PROBES  57 THRU  64     -0.0002    0.0047    0.0003    0.0002    0.0002    0.0004    0.0018    0.0068
PROBES  65 THRU  72      0.0005    0.0027    0.0003    0.0003    0.0052    0.0004    0.0002   -0.0002
PROBES  73 THRU  80     -0.0000    0.0002    0.0001    0.0005   -0.0001    0.0026    0.0004    0.0001
PROBES  81 THRU  88      0.0003   -0.0002   -0.0000    0.0001    0.0003    0.0034    0.0007    0.0010
PROBES  89 THRU  96      0.0001    0.0014   -0.0003    0.0098    0.0187    0.0159    0.0249    0.0169
PROBES  97 THRU 104      0.0038    0.0003    0.0000   -0.0001    0.0020   -0.0001    0.0007    0.0003
PROBES 105 THRU 112      0.0002    0.0003    0.0017    0.0002    0.0002    0.0002    0.0000    0.0004
PROBES 113 THRU 120      0.0003   -0.0009    0.0179    0.0512    0.0723    0.0235    0.0092    0.0014
PROBES 121 THRU 126      0.0001    0.0010   -0.0000    0.0002    0.0002    0.0544

   AXIAL POSITION #  5, AXIAL LOCATION = 23.00 INCHES, SALT OBSERVED =0.0038 G-SALT/LBM-WATER, SALT MISSED =0.0020 G-SALT/LBM-WATER

PROBES   1 THRU   8      0.0004    0.0010    0.0004   -0.0001   -0.0003    0.0003   -0.0001    0.0003
PROBES   9 THRU  16      0.0001    0.0000    0.0002    0.0001   -0.0000   -0.0001   -0.0001    0.0002
PROBES  17 THRU  24      0.0002    0.0001    0.0003    0.0002    0.0001   -0.0000    0.0033    0.0034
PROBES  25 THRU  32      0.0002   -0.0002    0.0026    0.0014    0.0001    0.0013    0.0001    0.0001
PROBES  33 THRU  40      0.0031   -0.0002    0.0010    0.0023    0.0001    0.0003    0.0005   -0.0001
PROBES  41 THRU  48      0.0003    0.0033    0.0002   -0.0003    0.0002    0.0003   -0.0000    0.0003
PROBES  49 THRU  56     -0.0003    0.0034    0.0004    0.0001    0.0025    0.0032    0.0001    0.0001
PROBES  57 THRU  64     -0.0003    0.0035    0.0003    0.0002    0.0002    0.0004    0.0014    0.0073
PROBES  65 THRU  72      0.0006    0.0030    0.0002    0.0003    0.0049    0.0005    0.0002   -0.0005
PROBES  73 THRU  80     -0.0000    0.0001    0.0002    0.0005    0.0000    0.0013    0.0004    0.0002
PROBES  81 THRU  88      0.0003   -0.0002   -0.0000    0.0002    0.0003    0.0027    0.0004    0.0009
PROBES  89 THRU  96      0.0002    0.0008   -0.0003    0.0112    0.0227    0.0163    0.0270    0.0160
PROBES  97 THRU 104      0.0030    0.0004    0.0000    0.0000    0.0020   -0.0001    0.0007   -0.0001
PROBES 105 THRU 112      0.0002    0.0003    0.0017    0.0002    0.0004    0.0002    0.0000    0.0004
PROBES 113 THRU 120      0.0002   -0.0009    0.0149    0.0544    0.0676    0.0167    0.0057    0.0032
PROBES 121 THRU 126      0.0002    0.0006   -0.0002    0.0002    0.0002    0.0591

   AXIAL POSITION #  6, AXIAL LOCATION = 22.00 INCHES, SALT OBSERVED =0.0037 G-SALT/LBM-WATER, SALT MISSED =0.0021 G-SALT/LBM-WATER

PROBES   1 THRU   8      0.0004    0.0010    0.0004   -0.0001   -0.0003    0.0002   -0.0001    0.0003
PROBES   9 THRU  16      0.0001    0.0001    0.0002    0.0001   -0.0000   -0.0001   -0.0001    0.0002
PROBES  17 THRU  24      0.0002    0.0001    0.0003    0.0002    0.0001   -0.0000    0.0029    0.0034
PROBES  25 THRU  32      0.0002   -0.0002    0.0026    0.0014    0.0001    0.0013    0.0001    0.0001
PROBES  33 THRU  40      0.0018   -0.0000    0.0020    0.0023    0.0002    0.0003    0.0005   -0.0001
PROBES  41 THRU  48      0.0003    0.0030    0.0002   -0.0003    0.0002    0.0003    0.0000    0.0003
PROBES  49 THRU  56     -0.0001    0.0028    0.0004    0.0001    0.0025    0.0027    0.0000   -0.0000
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PROBES  57 THRU  64      -0.0004    0.0032    0.0002    0.0001    0.0002    0.0004    0.0014    0.0062
PROBES  65 THRU  72       0.0002    0.0037    0.0003    0.0003    0.0049    0.0004    0.0002   -0.0001
PROBES  73 THRU  80      -0.0000    0.0002    0.0001    0.0004    0.0000    0.0010    0.0004    0.0002
PROBES  81 THRU  88       0.0003   -0.0002    0.0000    0.0002    0.0003    0.0024    0.0005    0.0007
PROBES  89 THRU  96       0.0002    0.0008   -0.0003    0.0064    0.0201    0.0161    0.0275    0.0173
PROBES  97 THRU 104       0.0034    0.0004    0.0000   -0.0001    0.0023   -0.0002    0.0010   -0.0005
PROBES 105 THRU 112       0.0002    0.0003    0.0017    0.0002    0.0004    0.0002    0.0000    0.0003
PROBES 113 THRU 120       0.0002   -0.0009    0.0117    0.0506    0.0731    0.0176    0.0051    0.0028
PROBES 121 THRU 126       0.0002    0.0005   -0.0000    0.0002    0.0002    0.0572

   AXIAL POSITION #  7, AXIAL LOCATION = 21.00 INCHES, SALT OBSERVED =0.0043 G-SALT/LBM-WATER, SALT MISSED =0.0016 G-SALT/LBM-WATER

PROBES   1 THRU   8       0.0004    0.0010    0.0003   -0.0000   -0.0003    0.0002   -0.0001    0.0003
PROBES   9 THRU  16       0.0001    0.0001    0.0002   -0.0000   -0.0000   -0.0001   -0.0001    0.0002
PROBES  17 THRU  24       0.0002    0.0001    0.0004    0.0002    0.0002    0.0000    0.0033    0.0028
PROBES  25 THRU  32       0.0002   -0.0002    0.0026    0.0014    0.0001    0.0010    0.0001    0.0001
PROBES  33 THRU  40       0.0025    0.0000    0.0010    0.0023    0.0002    0.0003    0.0003   -0.0002
PROBES  41 THRU  48       0.0003    0.0030    0.0002   -0.0003    0.0002    0.0003    0.0000    0.0003
PROBES  49 THRU  56      -0.0001    0.0028    0.0004    0.0001    0.0025    0.0027    0.0001    0.0001
PROBES  57 THRU  64      -0.0003    0.0025    0.0004    0.0002    0.0002    0.0003    0.0010    0.0040
PROBES  65 THRU  72       0.0001    0.0027    0.0002    0.0003    0.0013    0.0002    0.0003   -0.0004
PROBES  73 THRU  80      -0.0000    0.0001    0.0003    0.0004    0.0001    0.0026    0.0004    0.0002
PROBES  81 THRU  88       0.0003    0.0001    0.0001    0.0003    0.0003    0.0015    0.0003    0.0005
PROBES  89 THRU  96       0.0005    0.0007   -0.0003    0.0031    0.0173    0.0153    0.0275    0.0174
PROBES  97 THRU 104       0.0034    0.0004    0.0000   -0.0001    0.0010   -0.0001    0.0010   -0.0005
PROBES 105 THRU 112       0.0002    0.0003    0.0014    0.0003    0.0003    0.0002    0.0000    0.0004
PROBES 113 THRU 120       0.0002   -0.0009    0.0117    0.0590    0.0969    0.0237    0.0057    0.0022
PROBES 121 THRU 126       0.0003    0.0008   -0.0000    0.0002    0.0002    0.0751

   AXIAL POSITION #  8, AXIAL LOCATION = 20.00 INCHES, SALT OBSERVED =0.0036 G-SALT/LBM-WATER, SALT MISSED =0.0023 G-SALT/LBM-WATER

PROBES   1 THRU   8       0.0004    0.0010    0.0002    0.0001   -0.0002    0.0003   -0.0001    0.0003
PROBES   9 THRU  16       0.0001    0.0000    0.0003    0.0002   -0.0001   -0.0001   -0.0001    0.0002
PROBES  17 THRU  24       0.0002    0.0001    0.0004    0.0002    0.0002   -0.0000    0.0029    0.0034
PROBES  25 THRU  32       0.0002   -0.0001    0.0020    0.0017    0.0000    0.0010    0.0001    0.0001
PROBES  33 THRU  40       0.0018   -0.0000    0.0017    0.0027    0.0001    0.0003    0.0005    0.0001
PROBES  41 THRU  48       0.0003    0.0023    0.0003   -0.0002    0.0002    0.0003    0.0002    0.0003
PROBES  49 THRU  56      -0.0002    0.0021    0.0004    0.0002    0.0022    0.0023    0.0000   -0.0000
PROBES  57 THRU  64      -0.0003    0.0028    0.0002    0.0001    0.0002    0.0003    0.0010    0.0051
PROBES  65 THRU  72       0.0002    0.0015    0.0003    0.0003    0.0044    0.0004    0.0003   -0.0002
PROBES  73 THRU  80      -0.0000    0.0001    0.0003    0.0004    0.0001    0.0026    0.0004    0.0002
PROBES  81 THRU  88       0.0003   -0.0001    0.0000    0.0004    0.0003    0.0029    0.0003    0.0006
PROBES  89 THRU  96       0.0004    0.0003   -0.0002    0.0122    0.0294    0.0166    0.0236    0.0138
PROBES  97 THRU 104       0.0045    0.0004    0.0000   -0.0001    0.0013   -0.0001    0.0007    0.0007
PROBES 105 THRU 112       0.0002    0.0003    0.0021    0.0003    0.0000    0.0002    0.0001    0.0003
PROBES 113 THRU 120       0.0002   -0.0009    0.0228    0.0631    0.0527    0.0028    0.0017    0.0018
PROBES 121 THRU 126       0.0001    0.0006   -0.0003    0.0002    0.0002    0.0679

   AXIAL POSITION #  9, AXIAL LOCATION = 19.00 INCHES, SALT OBSERVED =0.0035 G-SALT/LBM-WATER, SALT MISSED =0.0024 G-SALT/LBM-WATER

PROBES   1 THRU   8       0.0004    0.0006    0.0002    0.0001   -0.0002    0.0003   -0.0001    0.0003
PROBES   9 THRU  16       0.0001    0.0000    0.0002   -0.0000    0.0000   -0.0001   -0.0001    0.0002
PROBES  17 THRU  24       0.0002    0.0001    0.0004    0.0003    0.0001    0.0000    0.0021    0.0028
PROBES  25 THRU  32       0.0002   -0.0001    0.0013    0.0017    0.0000    0.0010    0.0001    0.0001
PROBES  33 THRU  40       0.0021   -0.0000    0.0017    0.0027    0.0001    0.0003    0.0005    0.0001
PROBES  41 THRU  48       0.0003    0.0023    0.0003   -0.0002    0.0002    0.0003    0.0002    0.0003
PROBES  49 THRU  56      -0.0002    0.0021    0.0004    0.0002    0.0022    0.0023    0.0001    0.0002
PROBES  57 THRU  64      -0.0002    0.0022    0.0004    0.0002    0.0002    0.0004    0.0024    0.0059
PROBES  65 THRU  72       0.0002    0.0015    0.0003    0.0003    0.0049    0.0003    0.0002   -0.0002
PROBES  73 THRU  80      -0.0000    0.0001    0.0003    0.0004    0.0000    0.0029    0.0004    0.0002
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PROBES  81 THRU  88      0.0003  -0.0001   0.0001   0.0004   0.0003   0.0031   0.0005   0.0010
PROBES  89 THRU  96      0.0003   0.0002  -0.0002   0.0143   0.0323   0.0181   0.0238   0.0134
PROBES  97 THRU 104      0.0042   0.0003   0.0000  -0.0001   0.0020  -0.0001   0.0007   0.0007
PROBES 105 THRU 112      0.0002   0.0003   0.0024   0.0002   0.0004   0.0002   0.0001   0.0004
PROBES 113 THRU 120      0.0002  -0.0008   0.0239   0.0644   0.0430   0.0011   0.0017   0.0018
PROBES 121 THRU 126      0.0001   0.0003   0.0001   0.0002   0.0002   0.0637

   AXIAL POSITION # 10, AXIAL LOCATION = 18.00 INCHES, SALT OBSERVED =0.0034 G-SALT/LBM-WATER, SALT MISSED =0.0025 G-SALT/LBM-WATER

PROBES   1 THRU   8      0.0004   0.0006   0.0001   0.0001  -0.0001   0.0002   0.0001   0.0004
PROBES   9 THRU  16      0.0002   0.0001   0.0003  -0.0000   0.0000  -0.0001   0.0000   0.0003
PROBES  17 THRU  24      0.0002   0.0001   0.0003   0.0002   0.0002   0.0000   0.0033   0.0024
PROBES  25 THRU  32      0.0002  -0.0001   0.0016   0.0017   0.0001  -0.0001   0.0001   0.0001
PROBES  33 THRU  40      0.0014  -0.0001   0.0020   0.0009  -0.0000   0.0003   0.0003  -0.0002
PROBES  41 THRU  48      0.0003   0.0027   0.0002  -0.0001   0.0001   0.0003  -0.0002   0.0003
PROBES  49 THRU  56     -0.0002   0.0021   0.0003   0.0002   0.0018   0.0018  -0.0000  -0.0000
PROBES  57 THRU  64     -0.0001   0.0014   0.0003   0.0001   0.0002   0.0005   0.0007   0.0046
PROBES  65 THRU  72      0.0001   0.0030   0.0003   0.0003   0.0015   0.0003   0.0003  -0.0004
PROBES  73 THRU  80      0.0000   0.0002   0.0002   0.0004  -0.0000   0.0006   0.0003   0.0002
PROBES  81 THRU  88      0.0003  -0.0000   0.0002   0.0008   0.0001   0.0021   0.0003   0.0003
PROBES  89 THRU  96      0.0005   0.0002  -0.0002   0.0075   0.0235   0.0155   0.0212   0.0128
PROBES  97 THRU 104      0.0034   0.0003   0.0000  -0.0001   0.0023   0.0000  -0.0008   0.0003
PROBES 105 THRU 112      0.0003   0.0003   0.0017   0.0003   0.0003   0.0002   0.0000   0.0003
PROBES 113 THRU 120      0.0002  -0.0008   0.0215   0.0741   0.0447   0.0009   0.0008   0.0018
PROBES 121 THRU 126      0.0001   0.0002   0.0002   0.0002   0.0002   0.0939

   AXIAL POSITION # 11, AXIAL LOCATION = 17.00 INCHES, SALT OBSERVED =0.0033 G-SALT/LBM-WATER, SALT MISSED =0.0025 G-SALT/LBM-WATER

PROBES   1 THRU   8      0.0004   0.0010   0.0002   0.0001   0.0001   0.0002   0.0000   0.0005
PROBES   9 THRU  16      0.0001   0.0001   0.0004   0.0003   0.0000  -0.0001  -0.0001   0.0002
PROBES  17 THRU  24      0.0001   0.0001   0.0004   0.0002   0.0001   0.0000   0.0029   0.0021
PROBES  25 THRU  32      0.0002   0.0001   0.0032   0.0010   0.0001   0.0019   0.0001   0.0001
PROBES  33 THRU  40      0.0018  -0.0001   0.0017   0.0014  -0.0000   0.0002   0.0003   0.0000
PROBES  41 THRU  48      0.0003   0.0023   0.0003  -0.0002   0.0001   0.0005   0.0000   0.0003
PROBES  49 THRU  56     -0.0004   0.0014   0.0003   0.0003   0.0015   0.0009   0.0001  -0.0000
PROBES  57 THRU  64     -0.0000   0.0011   0.0002   0.0002   0.0002   0.0004   0.0021   0.0034
PROBES  65 THRU  72      0.0001   0.0019   0.0003   0.0003   0.0008   0.0002   0.0003  -0.0003
PROBES  73 THRU  80      0.0000   0.0002   0.0001   0.0004   0.0000   0.0019   0.0004   0.0003
PROBES  81 THRU  88      0.0004   0.0002   0.0003   0.0008   0.0001   0.0012   0.0003   0.0001
PROBES  89 THRU  96      0.0010   0.0002  -0.0001   0.0044   0.0219   0.0155   0.0220   0.0127
PROBES  97 THRU 104      0.0042   0.0004   0.0000  -0.0001   0.0020   0.0001  -0.0004  -0.0005
PROBES 105 THRU 112      0.0003   0.0003   0.0024   0.0003   0.0005   0.0002   0.0000   0.0003
PROBES 113 THRU 120      0.0002  -0.0005   0.0210   0.0730   0.0444   0.0009   0.0017   0.0014
PROBES 121 THRU 126      0.0003   0.0002   0.0002   0.0002   0.0002   0.0755

   AXIAL POSITION # 12, AXIAL LOCATION = 16.00 INCHES, SALT OBSERVED =0.0030 G-SALT/LBM-WATER, SALT MISSED =0.0029 G-SALT/LBM-WATER

PROBES   1 THRU   8      0.0004   0.0006   0.0002   0.0002  -0.0001   0.0002   0.0001   0.0005
PROBES   9 THRU  16      0.0001   0.0002   0.0003   0.0000   0.0000  -0.0001  -0.0001   0.0002
PROBES  17 THRU  24      0.0002   0.0000   0.0004   0.0002   0.0001   0.0000   0.0025   0.0021
PROBES  25 THRU  32      0.0003  -0.0000   0.0035   0.0007   0.0004   0.0003   0.0001   0.0001
PROBES  33 THRU  40      0.0018  -0.0001   0.0017   0.0014  -0.0000   0.0002   0.0004  -0.0001
PROBES  41 THRU  48      0.0003   0.0017   0.0002  -0.0002   0.0001   0.0005   0.0000   0.0003
PROBES  49 THRU  56      0.0002   0.0007   0.0003   0.0003   0.0015   0.0004  -0.0000   0.0001
PROBES  57 THRU  64     -0.0000   0.0011   0.0002   0.0002   0.0002   0.0004   0.0021   0.0043
PROBES  65 THRU  72      0.0002   0.0007   0.0004   0.0003   0.0054   0.0003   0.0002  -0.0002
PROBES  73 THRU  80      0.0001   0.0001   0.0001   0.0004   0.0000   0.0019   0.0004   0.0002
PROBES  81 THRU  88      0.0003   0.0001   0.0004   0.0008   0.0000   0.0019   0.0002   0.0001
PROBES  89 THRU  96      0.0007   0.0003   0.0001   0.0135   0.0320   0.0150   0.0096   0.0071
PROBES  97 THRU 104      0.0022   0.0003   0.0000  -0.0001   0.0020   0.0001  -0.0001  -0.0013
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PROBES 105 THRU 112        0.0002    0.0003    0.0014    0.0004    0.0003    0.0002    0.0001    0.0003
PROBES 113 THRU 120        0.0002   -0.0011    0.0427    0.0734    0.0073    0.0001    0.0008    0.0018
PROBES 121 THRU 126        0.0003    0.0001    0.0002    0.0002    0.0002    0.0578

   AXIAL POSITION # 13, AXIAL LOCATION = 15.00 INCHES, SALT OBSERVED =0.0031 G-SALT/LBM-WATER, SALT MISSED =0.0028 G-SALT/LBM-WATER

PROBES   1 THRU   8        0.0004    0.0006    0.0002    0.0001    0.0001    0.0002    0.0000    0.0005
PROBES   9 THRU  16        0.0001    0.0002    0.0003    0.0000    0.0000   -0.0001   -0.0001    0.0002
PROBES  17 THRU  24        0.0002    0.0000    0.0004    0.0002    0.0002    0.0001    0.0021    0.0014
PROBES  25 THRU  32        0.0003   -0.0001    0.0023    0.0020    0.0001    0.0019    0.0001    0.0001
PROBES  33 THRU  40        0.0018   -0.0001    0.0017    0.0014   -0.0000    0.0002    0.0003   -0.0001
PROBES  41 THRU  48        0.0003    0.0017    0.0002   -0.0002    0.0001    0.0005   -0.0000    0.0003
PROBES  49 THRU  56       -0.0001    0.0018    0.0003    0.0001    0.0015    0.0009    0.0001   -0.0000
PROBES  57 THRU  64       -0.0000    0.0011    0.0002    0.0002    0.0002    0.0004    0.0021    0.0040
PROBES  65 THRU  72        0.0001    0.0030    0.0003    0.0003    0.0052    0.0002    0.0003   -0.0003
PROBES  73 THRU  80        0.0000    0.0001    0.0001    0.0004    0.0001    0.0016    0.0005    0.0003
PROBES  81 THRU  88        0.0003    0.0002    0.0003    0.0008    0.0001    0.0018    0.0002    0.0000
PROBES  89 THRU  96        0.0007    0.0004    0.0002    0.0120    0.0332    0.0148    0.0100    0.0055
PROBES  97 THRU 104        0.0017    0.0004    0.0000   -0.0001    0.0010    0.0001   -0.0004   -0.0005
PROBES 105 THRU 112        0.0002    0.0003    0.0014    0.0003    0.0002    0.0002    0.0001    0.0003
PROBES 113 THRU 120        0.0002   -0.0010    0.0470    0.0782    0.0038    0.0001    0.0017    0.0011
PROBES 121 THRU 126        0.0003    0.0001    0.0004    0.0002    0.0002    0.0600

   AXIAL POSITION # 14, AXIAL LOCATION = 14.00 INCHES, SALT OBSERVED =0.0030 G-SALT/LBM-WATER, SALT MISSED =0.0028 G-SALT/LBM-WATER

PROBES   1 THRU   8        0.0004   -0.0001    0.0001    0.0003   -0.0001    0.0002    0.0001    0.0005
PROBES   9 THRU  16        0.0002    0.0002    0.0003    0.0000    0.0000   -0.0000    0.0000    0.0002
PROBES  17 THRU  24        0.0002    0.0001    0.0004    0.0002    0.0002    0.0001    0.0043    0.0021
PROBES  25 THRU  32        0.0003   -0.0000    0.0035    0.0007    0.0004    0.0003    0.0001    0.0001
PROBES  33 THRU  40        0.0025    0.0002   -0.0013    0.0014   -0.0000    0.0002    0.0004   -0.0001
PROBES  41 THRU  48        0.0003    0.0017    0.0002   -0.0000    0.0001    0.0005    0.0001    0.0003
PROBES  49 THRU  56        0.0000    0.0010    0.0003    0.0003    0.0015    0.0004   -0.0000    0.0001
PROBES  57 THRU  64       -0.0000    0.0007    0.0002    0.0003    0.0003    0.0003   -0.0005    0.0028
PROBES  65 THRU  72        0.0001    0.0015    0.0004    0.0003    0.0017    0.0002    0.0004   -0.0003
PROBES  73 THRU  80        0.0001    0.0002    0.0001    0.0004    0.0001    0.0016    0.0005    0.0003
PROBES  81 THRU  88        0.0003    0.0003   -0.0001    0.0008    0.0001    0.0009    0.0002    0.0000
PROBES  89 THRU  96        0.0009    0.0002    0.0002    0.0058    0.0261    0.0133    0.0077    0.0061
PROBES  97 THRU 104        0.0026    0.0004    0.0000   -0.0001    0.0010    0.0001   -0.0004    0.0018
PROBES 105 THRU 112        0.0002    0.0003    0.0014    0.0003    0.0002    0.0002    0.0001    0.0003
PROBES 113 THRU 120        0.0002   -0.0011    0.0430    0.0858    0.0041    0.0001    0.0013    0.0018
PROBES 121 THRU 126        0.0004    0.0001    0.0002    0.0002    0.0002    0.0661

   AXIAL POSITION # 15, AXIAL LOCATION = 13.00 INCHES, SALT OBSERVED =0.0033 G-SALT/LBM-WATER, SALT MISSED =0.0026 G-SALT/LBM-WATER

PROBES   1 THRU   8        0.0004   -0.0009    0.0000    0.0002   -0.0000    0.0002    0.0001    0.0005
PROBES   9 THRU  16        0.0002    0.0002    0.0005    0.0005    0.0000   -0.0000    0.0001    0.0002
PROBES  17 THRU  24        0.0002    0.0001    0.0004    0.0002    0.0002    0.0001    0.0040    0.0014
PROBES  25 THRU  32        0.0004   -0.0000    0.0035    0.0007    0.0004   -0.0005    0.0002    0.0002
PROBES  33 THRU  40        0.0014   -0.0001    0.0010    0.0014   -0.0000    0.0002    0.0007   -0.0002
PROBES  41 THRU  48        0.0003    0.0020    0.0002    0.0001    0.0001    0.0005    0.0001    0.0003
PROBES  49 THRU  56        0.0003    0.0014    0.0004    0.0002    0.0018    0.0004   -0.0000    0.0002
PROBES  57 THRU  64        0.0002    0.0003    0.0001    0.0004    0.0003    0.0003   -0.0005    0.0021
PROBES  65 THRU  72        0.0002    0.0019    0.0005    0.0003    0.0003    0.0003    0.0003   -0.0001
PROBES  73 THRU  80        0.0001    0.0001    0.0002    0.0004    0.0002    0.0010    0.0005    0.0003
PROBES  81 THRU  88        0.0003    0.0003   -0.0000    0.0009    0.0005    0.0004    0.0002    0.0000
PROBES  89 THRU  96        0.0011    0.0003    0.0003    0.0011    0.0233    0.0134    0.0104    0.0052
PROBES  97 THRU 104        0.0026    0.0003    0.0000   -0.0001    0.0017    0.0002   -0.0001   -0.0001
PROBES 105 THRU 112        0.0002    0.0003    0.0017    0.0004    0.0005    0.0002    0.0001    0.0003
PROBES 113 THRU 120        0.0002   -0.0007    0.0457    0.0999    0.0038    0.0001    0.0013    0.0018
PROBES 121 THRU 126        0.0004    0.0000    0.0003    0.0002    0.0002    0.0727
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   AXIAL POSITION # 16, AXIAL LOCATION = 12.00 INCHES, SALT OBSERVED =0.0028 G-SALT/LBM-WATER, SALT MISSED =0.0031 G-SALT/LBM-WATER

PROBES   1 THRU   8       0.0005    0.0006    0.0001   -0.0000   -0.0000    0.0002    0.0001    0.0005
PROBES   9 THRU  16       0.0002    0.0002    0.0005    0.0005    0.0001   -0.0000   -0.0000    0.0002
PROBES  17 THRU  24       0.0002    0.0001    0.0004    0.0002    0.0002    0.0001    0.0040    0.0018
PROBES  25 THRU  32       0.0003   -0.0000    0.0035    0.0007    0.0004   -0.0005    0.0002    0.0002
PROBES  33 THRU  40       0.0014   -0.0000    0.0006    0.0009    0.0001    0.0003    0.0005    0.0005
PROBES  41 THRU  48       0.0003    0.0020    0.0002    0.0001    0.0001    0.0005    0.0001    0.0003
PROBES  49 THRU  56      -0.0001    0.0010    0.0004    0.0002    0.0018    0.0004    0.0000    0.0002
PROBES  57 THRU  64       0.0002    0.0018    0.0003    0.0003    0.0003    0.0003    0.0007    0.0028
PROBES  65 THRU  72       0.0002    0.0019    0.0005    0.0003    0.0139    0.0003    0.0003   -0.0003
PROBES  73 THRU  80       0.0001    0.0001    0.0002    0.0004    0.0002    0.0010    0.0005    0.0003
PROBES  81 THRU  88       0.0003    0.0003   -0.0000    0.0008    0.0001    0.0008    0.0003    0.0001
PROBES  89 THRU  96       0.0011    0.0002   -0.0001    0.0077    0.0308    0.0121   -0.0000    0.0024
PROBES  97 THRU 104       0.0017    0.0004    0.0001   -0.0000    0.0003    0.0002   -0.0001   -0.0001
PROBES 105 THRU 112       0.0002    0.0004    0.0017    0.0004    0.0005    0.0002    0.0001    0.0003
PROBES 113 THRU 120       0.0002   -0.0007    0.0791    0.0446    0.0003    0.0001    0.0008    0.0018
PROBES 121 THRU 126       0.0004   -0.0000    0.0001    0.0002    0.0002    0.0009

   AXIAL POSITION # 17, AXIAL LOCATION = 11.50 INCHES, SALT OBSERVED =0.0023 G-SALT/LBM-WATER, SALT MISSED =0.0036 G-SALT/LBM-WATER

PROBES   1 THRU   8       0.0004    0.0020    0.0000    0.0003   -0.0000    0.0002    0.0002    0.0005
PROBES   9 THRU  16       0.0002    0.0001    0.0005    0.0005    0.0001   -0.0000    0.0001    0.0002
PROBES  17 THRU  24       0.0002    0.0001    0.0004    0.0002    0.0003    0.0001    0.0040    0.0010
PROBES  25 THRU  32       0.0003    0.0001    0.0029    0.0010    0.0002    0.0006    0.0002    0.0002
PROBES  33 THRU  40       0.0021   -0.0000    0.0006    0.0009    0.0001    0.0003    0.0005    0.0005
PROBES  41 THRU  48       0.0003    0.0020    0.0002    0.0001    0.0001    0.0005    0.0001    0.0003
PROBES  49 THRU  56      -0.0001    0.0010    0.0004    0.0002    0.0011   -0.0007    0.0003    0.0003
PROBES  57 THRU  64       0.0001    0.0011    0.0002    0.0003    0.0003    0.0003    0.0007    0.0021
PROBES  65 THRU  72       0.0001    0.0015    0.0005    0.0003    0.0061    0.0003    0.0003   -0.0002
PROBES  73 THRU  80       0.0001    0.0001    0.0002    0.0004    0.0002    0.0010    0.0005    0.0003
PROBES  81 THRU  88       0.0003    0.0003   -0.0000    0.0008    0.0001    0.0007    0.0003    0.0001
PROBES  89 THRU  96       0.0011    0.0002   -0.0001    0.0058    0.0235    0.0107   -0.0002    0.0032
PROBES  97 THRU 104       0.0017    0.0004    0.0001   -0.0001    0.0006    0.0002   -0.0001   -0.0001
PROBES 105 THRU 112       0.0002    0.0004    0.0017    0.0004    0.0007    0.0002    0.0001    0.0003
PROBES 113 THRU 120       0.0002   -0.0007    0.0643    0.0364    0.0003    0.0001    0.0008    0.0018
PROBES 121 THRU 126       0.0004    0.0000    0.0005    0.0002    0.0002    0.0001

   AXIAL POSITION # 18, AXIAL LOCATION = 11.00 INCHES, SALT OBSERVED =0.0025 G-SALT/LBM-WATER, SALT MISSED =0.0034 G-SALT/LBM-WATER

PROBES   1 THRU   8       0.0004    0.0020    0.0000   -0.0001   -0.0001    0.0002    0.0002    0.0005
PROBES   9 THRU  16       0.0002    0.0001    0.0006    0.0005    0.0001   -0.0000    0.0001    0.0002
PROBES  17 THRU  24       0.0002    0.0000    0.0004    0.0002    0.0002    0.0001    0.0033    0.0014
PROBES  25 THRU  32       0.0002    0.0000    0.0029    0.0010    0.0002    0.0016    0.0002    0.0002
PROBES  33 THRU  40       0.0021   -0.0000    0.0006    0.0009    0.0001    0.0003    0.0004   -0.0001
PROBES  41 THRU  48       0.0003    0.0013    0.0002    0.0003    0.0001    0.0004    0.0000    0.0003
PROBES  49 THRU  56      -0.0001    0.0003    0.0004    0.0003    0.0003   -0.0001    0.0000    0.0002
PROBES  57 THRU  64       0.0001    0.0007    0.0003    0.0002    0.0002    0.0004    0.0003    0.0024
PROBES  65 THRU  72       0.0001    0.0007    0.0006    0.0003    0.0096    0.0002    0.0004   -0.0000
PROBES  73 THRU  80       0.0002    0.0001    0.0001    0.0004    0.0002    0.0010    0.0003    0.0003
PROBES  81 THRU  88       0.0004    0.0004   -0.0000    0.0008    0.0001    0.0004    0.0002    0.0002
PROBES  89 THRU  96       0.0011    0.0002    0.0000    0.0024    0.0198    0.0086   -0.0003    0.0028
PROBES  97 THRU 104       0.0017    0.0004    0.0001   -0.0000    0.0013    0.0003    0.0014   -0.0009
PROBES 105 THRU 112       0.0002    0.0005    0.0017    0.0004    0.0007    0.0002    0.0001    0.0003
PROBES 113 THRU 120       0.0002    0.0002    0.0782    0.0344    0.0003    0.0001    0.0017    0.0011
PROBES 121 THRU 126       0.0004    0.0000    0.0005    0.0002    0.0002   -0.0005

   AXIAL POSITION # 19, AXIAL LOCATION = 10.50 INCHES, SALT OBSERVED =0.0027 G-SALT/LBM-WATER, SALT MISSED =0.0031 G-SALT/LBM-WATER
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PROBES   1 THRU   8       0.0004     0.0020     0.0000    -0.0001    -0.0001     0.0002     0.0003     0.0003
PROBES   9 THRU  16       0.0002     0.0001     0.0004     0.0004     0.0001    -0.0000     0.0001     0.0002
PROBES  17 THRU  24       0.0002     0.0001     0.0004     0.0002     0.0002     0.0001     0.0033     0.0014
PROBES  25 THRU  32       0.0002     0.0000     0.0029     0.0010     0.0002     0.0016     0.0002     0.0002
PROBES  33 THRU  40       0.0021    -0.0000     0.0006     0.0009     0.0002     0.0003     0.0004    -0.0001
PROBES  41 THRU  48       0.0003     0.0013     0.0002     0.0003     0.0001     0.0004     0.0000     0.0003
PROBES  49 THRU  56      -0.0001     0.0007     0.0004     0.0003     0.0003    -0.0001     0.0000     0.0002
PROBES  57 THRU  64       0.0001     0.0003     0.0003     0.0002     0.0002     0.0004     0.0003     0.0024
PROBES  65 THRU  72       0.0001     0.0019     0.0005     0.0003     0.0072     0.0002     0.0004    -0.0000
PROBES  73 THRU  80      -0.0000     0.0001     0.0003     0.0004     0.0002     0.0013     0.0003     0.0003
PROBES  81 THRU  88       0.0004     0.0004     0.0000     0.0009     0.0005     0.0003     0.0003     0.0003
PROBES  89 THRU  96       0.0008     0.0002     0.0002     0.0023     0.0203     0.0084    -0.0003     0.0020
PROBES  97 THRU 104       0.0017     0.0004     0.0001    -0.0000     0.0006     0.0002    -0.0008    -0.0005
PROBES 105 THRU 112       0.0002     0.0004     0.0010     0.0004     0.0006     0.0002     0.0001     0.0002
PROBES 113 THRU 120       0.0002    -0.0006     0.0937     0.0423     0.0003     0.0001     0.0017     0.0014
PROBES 121 THRU 126       0.0002    -0.0000     0.0002     0.0002     0.0002    -0.0001

   AXIAL POSITION # 20, AXIAL LOCATION = 10.00 INCHES, SALT OBSERVED =0.0026 G-SALT/LBM-WATER, SALT MISSED =0.0033 G-SALT/LBM-WATER

PROBES   1 THRU   8       0.0004     0.0020     0.0002    -0.0001    -0.0001     0.0002     0.0001     0.0005
PROBES   9 THRU  16       0.0003     0.0003     0.0004     0.0004     0.0002     0.0002     0.0001     0.0002
PROBES  17 THRU  24       0.0002     0.0001     0.0003     0.0002     0.0003     0.0001     0.0033     0.0007
PROBES  25 THRU  32       0.0003     0.0000     0.0026     0.0014     0.0001     0.0010     0.0002     0.0002
PROBES  33 THRU  40       0.0021    -0.0000     0.0006     0.0009     0.0002     0.0003     0.0004    -0.0001
PROBES  41 THRU  48       0.0003     0.0013     0.0002     0.0003     0.0001     0.0004     0.0000     0.0003
PROBES  49 THRU  56      -0.0003     0.0007     0.0004     0.0003     0.0003    -0.0001     0.0001     0.0002
PROBES  57 THRU  64       0.0001     0.0003     0.0003     0.0002     0.0002     0.0004     0.0003     0.0021
PROBES  65 THRU  72       0.0001     0.0015     0.0006     0.0003     0.0057     0.0003     0.0004    -0.0000
PROBES  73 THRU  80      -0.0000     0.0001     0.0001     0.0004     0.0002     0.0013     0.0003     0.0003
PROBES  81 THRU  88       0.0004     0.0004     0.0001     0.0011     0.0007     0.0003     0.0003     0.0002
PROBES  89 THRU  96       0.0013     0.0005    -0.0001     0.0005     0.0190     0.0078    -0.0003     0.0024
PROBES  97 THRU 104       0.0008     0.0003     0.0001    -0.0000     0.0006     0.0002    -0.0008    -0.0005
PROBES 105 THRU 112       0.0002     0.0004     0.0010     0.0004     0.0005     0.0002     0.0001     0.0003
PROBES 113 THRU 120       0.0002    -0.0008     0.0857     0.0426     0.0003     0.0001     0.0017     0.0011
PROBES 121 THRU 126       0.0004    -0.0000     0.0008     0.0002     0.0002     0.0001

   AXIAL POSITION # 21, AXIAL LOCATION =  9.50 INCHES, SALT OBSERVED =0.0025 G-SALT/LBM-WATER, SALT MISSED =0.0034 G-SALT/LBM-WATER

PROBES   1 THRU   8       0.0004     0.0017     0.0000     0.0003     0.0002     0.0003     0.0002     0.0005
PROBES   9 THRU  16       0.0003     0.0003     0.0004     0.0004     0.0002     0.0002     0.0001     0.0002
PROBES  17 THRU  24       0.0002     0.0001     0.0003     0.0002     0.0002     0.0001     0.0033     0.0007
PROBES  25 THRU  32       0.0003     0.0000     0.0026     0.0014     0.0001     0.0010     0.0001     0.0001
PROBES  33 THRU  40       0.0014     0.0001     0.0003     0.0009     0.0002     0.0003     0.0004     0.0000
PROBES  41 THRU  48       0.0003     0.0013     0.0002     0.0003     0.0001     0.0005     0.0001     0.0003
PROBES  49 THRU  56      -0.0002     0.0007     0.0004     0.0003    -0.0001     0.0004     0.0001     0.0002
PROBES  57 THRU  64       0.0001    -0.0001     0.0002     0.0003     0.0002     0.0003     0.0007     0.0018
PROBES  65 THRU  72       0.0002     0.0019     0.0005     0.0003     0.0022     0.0002     0.0003    -0.0001
PROBES  73 THRU  80      -0.0000     0.0001     0.0004     0.0003     0.0002     0.0006     0.0004     0.0003
PROBES  81 THRU  88       0.0004     0.0003    -0.0000     0.0009     0.0006     0.0010     0.0003     0.0000
PROBES  89 THRU  96       0.0010     0.0003     0.0002     0.0122     0.0439     0.0146     0.0012     0.0028
PROBES  97 THRU 104       0.0022     0.0003     0.0001    -0.0000     0.0003     0.0002    -0.0008    -0.0013
PROBES 105 THRU 112       0.0002     0.0004     0.0010     0.0004     0.0006     0.0002     0.0001     0.0002
PROBES 113 THRU 120       0.0002    -0.0009     0.0482     0.0584     0.0003     0.0001     0.0013     0.0011
PROBES 121 THRU 126       0.0004    -0.0000     0.0005     0.0002     0.0002     0.0035

   AXIAL POSITION # 22, AXIAL LOCATION =  8.50 INCHES, SALT OBSERVED =0.0027 G-SALT/LBM-WATER, SALT MISSED =0.0032 G-SALT/LBM-WATER

PROBES   1 THRU   8       0.0005    -0.0005     0.0001     0.0004     0.0001     0.0002     0.0001     0.0002
PROBES   9 THRU  16       0.0002     0.0003     0.0003     0.0001     0.0002     0.0003     0.0002     0.0003
PROBES  17 THRU  24       0.0002     0.0001     0.0003     0.0002     0.0002     0.0001     0.0021     0.0007
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PROBES  25 THRU  32       0.0004    0.0001    0.0032    0.0007    0.0004   -0.0008    0.0002    0.0001
PROBES  33 THRU  40       0.0011    0.0000    0.0006    0.0014    0.0001    0.0002    0.0005   -0.0001
PROBES  41 THRU  48       0.0003    0.0006    0.0002   -0.0000    0.0000    0.0002    0.0001    0.0003
PROBES  49 THRU  56      -0.0002   -0.0001    0.0004    0.0002    0.0007    0.0009    0.0002    0.0005
PROBES  57 THRU  64       0.0002    0.0007    0.0003    0.0003    0.0003    0.0003   -0.0005    0.0010
PROBES  65 THRU  72       0.0002    0.0011    0.0005    0.0003    0.0057    0.0002    0.0003   -0.0000
PROBES  73 THRU  80      -0.0000    0.0001    0.0004    0.0004    0.0002    0.0006    0.0004    0.0004
PROBES  81 THRU  88       0.0004    0.0004    0.0001    0.0012    0.0007    0.0003    0.0004    0.0004
PROBES  89 THRU  96       0.0010    0.0003   -0.0000    0.0014    0.0244    0.0070    0.0001    0.0008
PROBES  97 THRU 104       0.0004    0.0003    0.0000    0.0000    0.0003    0.0004   -0.0004    0.0007
PROBES 105 THRU 112       0.0002    0.0004    0.0007    0.0003    0.0003    0.0002    0.0000    0.0003
PROBES 113 THRU 120       0.0002   -0.0010    0.1210    0.0160    0.0003    0.0001    0.0013    0.0007
PROBES 121 THRU 126       0.0003    0.0000    0.0001    0.0002    0.0002   -0.0006

   AXIAL POSITION # 23, AXIAL LOCATION =  8.00 INCHES, SALT OBSERVED =0.0024 G-SALT/LBM-WATER, SALT MISSED =0.0035 G-SALT/LBM-WATER

PROBES   1 THRU   8       0.0005   -0.0005    0.0001    0.0004    0.0001    0.0003    0.0002    0.0002
PROBES   9 THRU  16       0.0002    0.0003    0.0003    0.0001    0.0002    0.0002    0.0002    0.0003
PROBES  17 THRU  24       0.0002    0.0001    0.0003    0.0002    0.0002    0.0001    0.0021    0.0007
PROBES  25 THRU  32       0.0004    0.0001    0.0032    0.0007    0.0006   -0.0008    0.0002    0.0001
PROBES  33 THRU  40       0.0011    0.0000    0.0006    0.0014    0.0001    0.0002    0.0005   -0.0001
PROBES  41 THRU  48       0.0003    0.0006    0.0002    0.0003    0.0001    0.0005    0.0001    0.0003
PROBES  49 THRU  56      -0.0001    0.0007    0.0003    0.0002    0.0007    0.0009    0.0002    0.0005
PROBES  57 THRU  64       0.0002    0.0007    0.0003    0.0003    0.0003    0.0003   -0.0013    0.0010
PROBES  65 THRU  72       0.0002    0.0015    0.0004    0.0003    0.0254    0.0003    0.0004   -0.0000
PROBES  73 THRU  80      -0.0000    0.0001    0.0004    0.0004    0.0002    0.0006    0.0004    0.0004
PROBES  81 THRU  88       0.0004    0.0004   -0.0001    0.0009    0.0006    0.0003    0.0004    0.0004
PROBES  89 THRU  96       0.0010    0.0003   -0.0000    0.0038    0.0185    0.0048    0.0002    0.0012
PROBES  97 THRU 104       0.0013    0.0003    0.0001   -0.0000   -0.0001    0.0002   -0.0008   -0.0013
PROBES 105 THRU 112       0.0002    0.0004    0.0010    0.0004    0.0006    0.0002    0.0001    0.0003
PROBES 113 THRU 120       0.0002    0.0033    0.1103   -0.0005    0.0003    0.0001    0.0021    0.0014
PROBES 121 THRU 126       0.0003   -0.0000    0.0003    0.0002    0.0002   -0.0002

   AXIAL POSITION # 24, AXIAL LOCATION =  7.50 INCHES, SALT OBSERVED =0.0020 G-SALT/LBM-WATER, SALT MISSED =0.0039 G-SALT/LBM-WATER

PROBES   1 THRU   8       0.0005   -0.0009    0.0001    0.0001    0.0001    0.0002    0.0003    0.0003
PROBES   9 THRU  16       0.0003    0.0003    0.0003    0.0001    0.0002    0.0003    0.0002    0.0003
PROBES  17 THRU  24       0.0002    0.0001    0.0003    0.0002    0.0003    0.0002    0.0029    0.0003
PROBES  25 THRU  32       0.0004    0.0001    0.0020    0.0007    0.0004   -0.0008    0.0002    0.0001
PROBES  33 THRU  40       0.0011    0.0000    0.0006    0.0014    0.0001    0.0002    0.0009    0.0000
PROBES  41 THRU  48       0.0003    0.0003    0.0002   -0.0000    0.0001    0.0007    0.0002    0.0003
PROBES  49 THRU  56       0.0003    0.0003    0.0004    0.0002    0.0007    0.0004    0.0001    0.0002
PROBES  57 THRU  64       0.0002    0.0007    0.0002    0.0004    0.0002    0.0003    0.0007    0.0007
PROBES  65 THRU  72       0.0002    0.0015    0.0006    0.0003    0.0214    0.0002    0.0005   -0.0001
PROBES  73 THRU  80      -0.0000    0.0001    0.0004    0.0004    0.0002    0.0006    0.0004    0.0004
PROBES  81 THRU  88       0.0003    0.0004    0.0001    0.0008    0.0002    0.0003    0.0004    0.0004
PROBES  89 THRU  96       0.0010    0.0003   -0.0000    0.0018    0.0152    0.0035    0.0002    0.0004
PROBES  97 THRU 104       0.0004    0.0003    0.0001   -0.0000   -0.0005    0.0002    0.0014    0.0011
PROBES 105 THRU 112       0.0002    0.0004    0.0007    0.0003    0.0003    0.0002    0.0000    0.0003
PROBES 113 THRU 120       0.0002    0.0028    0.0890   -0.0014    0.0003    0.0001    0.0013    0.0007
PROBES 121 THRU 126       0.0004    0.0001    0.0001    0.0002    0.0002   -0.0002

   AXIAL POSITION # 25, AXIAL LOCATION =  7.00 INCHES, SALT OBSERVED =0.0019 G-SALT/LBM-WATER, SALT MISSED =0.0040 G-SALT/LBM-WATER

PROBES   1 THRU   8       0.0005    0.0017    0.0000    0.0004    0.0001    0.0002    0.0003    0.0003
PROBES   9 THRU  16       0.0003    0.0003    0.0003    0.0001    0.0001    0.0004    0.0003    0.0003
PROBES  17 THRU  24       0.0002    0.0001    0.0003    0.0002    0.0004    0.0002    0.0033    0.0003
PROBES  25 THRU  32       0.0004    0.0001    0.0023   -0.0001    0.0001    0.0003    0.0001    0.0001
PROBES  33 THRU  40       0.0014    0.0001    0.0003    0.0004    0.0002    0.0002    0.0005   -0.0001
PROBES  41 THRU  48       0.0003    0.0003    0.0003   -0.0000    0.0001    0.0005    0.0003    0.0003
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PROBES  49 THRU  56      0.0003     0.0003     0.0004     0.0003     0.0011    -0.0007     0.0005     0.0002
PROBES  57 THRU  64      0.0002     0.0003     0.0002     0.0004     0.0002     0.0003     0.0007     0.0003
PROBES  65 THRU  72      0.0002     0.0015     0.0005     0.0003     0.0086     0.0003     0.0003     0.0001
PROBES  73 THRU  80      0.0000     0.0001     0.0002     0.0004     0.0003     0.0010     0.0004     0.0003
PROBES  81 THRU  88      0.0004     0.0004     0.0000     0.0009     0.0006     0.0003     0.0003     0.0003
PROBES  89 THRU  96      0.0009     0.0003     0.0005    -0.0009     0.0120     0.0031     0.0002     0.0004
PROBES  97 THRU 104      0.0004     0.0003     0.0001     0.0000    -0.0001     0.0003     0.0007     0.0003
PROBES 105 THRU 112      0.0002     0.0005     0.0007     0.0003     0.0003     0.0002     0.0000     0.0003
PROBES 113 THRU 120      0.0002     0.0044     0.0879    -0.0014     0.0003     0.0001     0.0013     0.0007
PROBES 121 THRU 126      0.0004     0.0001     0.0003     0.0002     0.0002    -0.0001

   AXIAL POSITION # 26, AXIAL LOCATION =  6.50 INCHES, SALT OBSERVED =0.0020 G-SALT/LBM-WATER, SALT MISSED =0.0039 G-SALT/LBM-WATER

PROBES   1 THRU   8      0.0005    -0.0013     0.0000     0.0001    -0.0000     0.0003     0.0003     0.0003
PROBES   9 THRU  16      0.0004     0.0003     0.0003     0.0002     0.0001     0.0003     0.0002     0.0003
PROBES  17 THRU  24      0.0002     0.0001     0.0003     0.0002     0.0004     0.0003    -0.0001     0.0010
PROBES  25 THRU  32      0.0004     0.0002     0.0026     0.0007     0.0004    -0.0008     0.0002     0.0001
PROBES  33 THRU  40      0.0011     0.0000     0.0006     0.0014     0.0001     0.0002     0.0009     0.0000
PROBES  41 THRU  48      0.0003     0.0003     0.0002    -0.0000     0.0001     0.0007     0.0002     0.0003
PROBES  49 THRU  56      0.0003     0.0003     0.0004     0.0002     0.0007     0.0009     0.0002     0.0003
PROBES  57 THRU  64      0.0002     0.0007     0.0002     0.0004     0.0002     0.0003     0.0007     0.0003
PROBES  65 THRU  72      0.0002     0.0007     0.0005     0.0003     0.0063     0.0002     0.0003    -0.0000
PROBES  73 THRU  80     -0.0000     0.0001     0.0004     0.0004     0.0002     0.0006     0.0004     0.0004
PROBES  81 THRU  88      0.0003     0.0004     0.0001     0.0012     0.0007     0.0003     0.0003     0.0003
PROBES  89 THRU  96      0.0010     0.0003    -0.0000    -0.0009     0.0111     0.0027     0.0001     0.0004
PROBES  97 THRU 104      0.0004     0.0003     0.0001    -0.0000     0.0006     0.0001    -0.0004     0.0007
PROBES 105 THRU 112      0.0002     0.0004     0.0007     0.0003     0.0004     0.0002     0.0001     0.0002
PROBES 113 THRU 120      0.0002     0.0037     0.0995    -0.0013     0.0003     0.0001     0.0004     0.0014
PROBES 121 THRU 126      0.0003     0.0000     0.0001     0.0002     0.0002     0.0000

   AXIAL POSITION # 27, AXIAL LOCATION =  6.00 INCHES, SALT OBSERVED =0.0019 G-SALT/LBM-WATER, SALT MISSED =0.0039 G-SALT/LBM-WATER

PROBES   1 THRU   8      0.0005     0.0013     0.0000     0.0001    -0.0000     0.0003     0.0003     0.0003
PROBES   9 THRU  16      0.0003     0.0002     0.0003     0.0002     0.0002     0.0003     0.0002     0.0003
PROBES  17 THRU  24      0.0002     0.0001     0.0003     0.0002     0.0003     0.0003     0.0004     0.0003
PROBES  25 THRU  32      0.0004     0.0001     0.0023    -0.0001     0.0005    -0.0005     0.0002     0.0002
PROBES  33 THRU  40      0.0011     0.0000     0.0003     0.0004     0.0001     0.0002     0.0009     0.0000
PROBES  41 THRU  48      0.0003     0.0003     0.0002    -0.0000     0.0001     0.0007     0.0003     0.0003
PROBES  49 THRU  56      0.0003     0.0003     0.0004     0.0002     0.0007     0.0004     0.0001     0.0002
PROBES  57 THRU  64      0.0002     0.0007     0.0002     0.0004     0.0002     0.0003     0.0007    -0.0001
PROBES  65 THRU  72      0.0002     0.0007     0.0006     0.0003     0.0033     0.0003     0.0005     0.0001
PROBES  73 THRU  80      0.0000     0.0001     0.0002     0.0004     0.0003     0.0003     0.0005     0.0005
PROBES  81 THRU  88      0.0004     0.0003     0.0000     0.0011     0.0008     0.0003     0.0004     0.0003
PROBES  89 THRU  96      0.0009     0.0003     0.0001    -0.0008     0.0121     0.0031     0.0002     0.0008
PROBES  97 THRU 104     -0.0006     0.0003     0.0001     0.0001    -0.0001     0.0003     0.0007     0.0003
PROBES 105 THRU 112      0.0002     0.0005     0.0007     0.0003     0.0003     0.0002     0.0001     0.0003
PROBES 113 THRU 120      0.0003    -0.0000     0.0995    -0.0012     0.0003     0.0002     0.0008     0.0007
PROBES 121 THRU 126      0.0005     0.0001     0.0002     0.0002     0.0002    -0.0002

   AXIAL POSITION # 28, AXIAL LOCATION =  5.75 INCHES, SALT OBSERVED =0.0020 G-SALT/LBM-WATER, SALT MISSED =0.0039 G-SALT/LBM-WATER

PROBES   1 THRU   8      0.0005     0.0013     0.0001     0.0003     0.0002     0.0003     0.0004     0.0003
PROBES   9 THRU  16      0.0003     0.0002     0.0003     0.0002     0.0002     0.0003     0.0002     0.0003
PROBES  17 THRU  24      0.0002     0.0001     0.0003     0.0002     0.0004     0.0002     0.0017     0.0003
PROBES  25 THRU  32      0.0003     0.0001     0.0023    -0.0001     0.0001    -0.0001     0.0003     0.0001
PROBES  33 THRU  40      0.0007     0.0002    -0.0017     0.0004     0.0002     0.0002     0.0010     0.0001
PROBES  41 THRU  48      0.0003     0.0006     0.0003     0.0004     0.0001     0.0003     0.0003     0.0003
PROBES  49 THRU  56     -0.0001     0.0007     0.0004     0.0002     0.0007    -0.0007     0.0005     0.0002
PROBES  57 THRU  64      0.0005     0.0011     0.0002     0.0005     0.0002     0.0003    -0.0005    -0.0001
PROBES  65 THRU  72      0.0002     0.0015     0.0006     0.0004     0.0004     0.0004     0.0003     0.0003
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PROBES  73 THRU  80        0.0001    0.0001    0.0003    0.0003    0.0005    0.0003    0.0004    0.0005
PROBES  81 THRU  88        0.0004    0.0003    0.0000    0.0014    0.0006    0.0003    0.0003    0.0003
PROBES  89 THRU  96        0.0010    0.0003    0.0003   -0.0002    0.0193    0.0054    0.0001   -0.0001
PROBES  97 THRU 104        0.0008    0.0004    0.0001    0.0001    0.0006    0.0003    0.0003   -0.0001
PROBES 105 THRU 112        0.0002    0.0005    0.0007    0.0003    0.0003    0.0002    0.0001    0.0002
PROBES 113 THRU 120        0.0003   -0.0011    0.1008   -0.0001    0.0003    0.0001    0.0004    0.0003
PROBES 121 THRU 126        0.0004    0.0001    0.0004    0.0002    0.0002   -0.0004

   AXIAL POSITION # 29, AXIAL LOCATION =  5.50 INCHES, SALT OBSERVED =0.0021 G-SALT/LBM-WATER, SALT MISSED =0.0038 G-SALT/LBM-WATER

PROBES   1 THRU   8        0.0005   -0.0013    0.0000    0.0007   -0.0000    0.0003    0.0004    0.0003
PROBES   9 THRU  16        0.0003    0.0002    0.0003    0.0003    0.0003    0.0002    0.0002    0.0003
PROBES  17 THRU  24        0.0002    0.0001    0.0003    0.0002    0.0004    0.0002    0.0017    0.0007
PROBES  25 THRU  32        0.0003    0.0002    0.0023   -0.0001    0.0001   -0.0001    0.0003    0.0001
PROBES  33 THRU  40        0.0014    0.0001    0.0003    0.0004    0.0002    0.0002    0.0009    0.0002
PROBES  41 THRU  48        0.0003    0.0010    0.0003   -0.0000    0.0001    0.0005    0.0003    0.0003
PROBES  49 THRU  56        0.0003    0.0003    0.0004    0.0003    0.0011   -0.0007    0.0005    0.0002
PROBES  57 THRU  64        0.0005    0.0011    0.0001    0.0005    0.0002    0.0003    0.0003    0.0007
PROBES  65 THRU  72        0.0002    0.0007    0.0006    0.0003    0.0002    0.0003    0.0004    0.0003
PROBES  73 THRU  80        0.0000    0.0001    0.0002    0.0004    0.0003    0.0010    0.0004    0.0003
PROBES  81 THRU  88        0.0004    0.0004    0.0000    0.0011    0.0005    0.0003    0.0003    0.0003
PROBES  89 THRU  96        0.0009    0.0003    0.0003   -0.0002    0.0125    0.0024    0.0002   -0.0001
PROBES  97 THRU 104       -0.0006    0.0003    0.0001    0.0002   -0.0001    0.0003    0.0003   -0.0001
PROBES 105 THRU 112        0.0002    0.0005    0.0007    0.0003    0.0003    0.0002    0.0002    0.0002
PROBES 113 THRU 120        0.0003   -0.0006    0.1103   -0.0000    0.0003    0.0002    0.0004    0.0007
PROBES 121 THRU 126        0.0005    0.0001    0.0004    0.0002    0.0002   -0.0004

   AXIAL POSITION # 30, AXIAL LOCATION =  5.25 INCHES, SALT OBSERVED =0.0019 G-SALT/LBM-WATER, SALT MISSED =0.0039 G-SALT/LBM-WATER

PROBES   1 THRU   8        0.0003   -0.0009    0.0000    0.0001   -0.0000    0.0003    0.0003    0.0003
PROBES   9 THRU  16        0.0003    0.0002    0.0003    0.0002    0.0002    0.0003    0.0002    0.0003
PROBES  17 THRU  24        0.0002    0.0001    0.0003    0.0003    0.0003    0.0003    0.0004   -0.0005
PROBES  25 THRU  32        0.0003    0.0002    0.0023   -0.0001    0.0001   -0.0001    0.0003    0.0001
PROBES  33 THRU  40        0.0014    0.0001    0.0003    0.0004    0.0002    0.0002    0.0009    0.0002
PROBES  41 THRU  48        0.0003    0.0006    0.0003    0.0004    0.0001    0.0003    0.0003    0.0003
PROBES  49 THRU  56        0.0004    0.0007    0.0004    0.0002    0.0007    0.0004    0.0001    0.0003
PROBES  57 THRU  64        0.0003    0.0003    0.0002    0.0004    0.0002    0.0003    0.0003    0.0007
PROBES  65 THRU  72        0.0002    0.0007    0.0006    0.0003    0.0003    0.0002    0.0003    0.0003
PROBES  73 THRU  80        0.0001    0.0001    0.0003    0.0003    0.0005    0.0003    0.0004    0.0004
PROBES  81 THRU  88        0.0004    0.0003    0.0000    0.0011    0.0008    0.0003    0.0004    0.0003
PROBES  89 THRU  96        0.0009    0.0003    0.0001   -0.0007    0.0126    0.0031    0.0002    0.0008
PROBES  97 THRU 104       -0.0006    0.0003    0.0001    0.0002   -0.0001    0.0003    0.0003   -0.0005
PROBES 105 THRU 112        0.0003    0.0006    0.0007    0.0003    0.0003    0.0002    0.0002    0.0002
PROBES 113 THRU 120        0.0003   -0.0008    0.1022   -0.0004    0.0003    0.0001    0.0013   -0.0001
PROBES 121 THRU 126        0.0004    0.0001    0.0005    0.0002    0.0002   -0.0004

   AXIAL POSITION # 31, AXIAL LOCATION =  5.00 INCHES, SALT OBSERVED =0.0020 G-SALT/LBM-WATER, SALT MISSED =0.0039 G-SALT/LBM-WATER

PROBES   1 THRU   8        0.0005   -0.0005   -0.0000    0.0003    0.0001    0.0002    0.0003    0.0003
PROBES   9 THRU  16        0.0003    0.0002    0.0003    0.0002    0.0002    0.0003    0.0002    0.0003
PROBES  17 THRU  24        0.0002    0.0001    0.0003    0.0002    0.0004    0.0002    0.0017    0.0007
PROBES  25 THRU  32        0.0004    0.0001    0.0023   -0.0001    0.0001   -0.0001    0.0003    0.0001
PROBES  33 THRU  40        0.0014    0.0001    0.0003    0.0004    0.0002    0.0002    0.0009    0.0002
PROBES  41 THRU  48        0.0003    0.0006    0.0003    0.0004    0.0001    0.0006    0.0005    0.0004
PROBES  49 THRU  56        0.0002    0.0010    0.0004    0.0002    0.0007    0.0004    0.0001    0.0003
PROBES  57 THRU  64        0.0003    0.0003    0.0002    0.0004    0.0002    0.0003    0.0003    0.0007
PROBES  65 THRU  72        0.0002    0.0007    0.0006    0.0003    0.0006    0.0002    0.0003    0.0003
PROBES  73 THRU  80        0.0001    0.0001    0.0003    0.0003    0.0005    0.0003    0.0004    0.0004
PROBES  81 THRU  88        0.0004    0.0003    0.0000    0.0011    0.0005    0.0003    0.0003    0.0004
PROBES  89 THRU  96        0.0011    0.0003    0.0001    0.0001    0.0058    0.0003    0.0003   -0.0010
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PROBES  97 THRU 104       -0.0001     0.0003     0.0001     0.0001     0.0006     0.0002     0.0010     0.0003
PROBES 105 THRU 112        0.0003     0.0006     0.0007     0.0003     0.0005     0.0002     0.0002     0.0002
PROBES 113 THRU 120        0.0003    -0.0011     0.1058    -0.0011     0.0003     0.0001     0.0004     0.0003
PROBES 121 THRU 126        0.0004     0.0001     0.0004     0.0002     0.0002    -0.0002

   AXIAL POSITION # 32, AXIAL LOCATION =  4.75 INCHES, SALT OBSERVED =0.0017 G-SALT/LBM-WATER, SALT MISSED =0.0042 G-SALT/LBM-WATER

PROBES   1 THRU   8        0.0005     0.0013     0.0000     0.0001    -0.0000     0.0003     0.0003     0.0003
PROBES   9 THRU  16        0.0003     0.0002     0.0003     0.0002     0.0002     0.0003     0.0002     0.0003
PROBES  17 THRU  24        0.0002     0.0002     0.0003     0.0002     0.0004     0.0002     0.0021     0.0003
PROBES  25 THRU  32        0.0004     0.0001     0.0023    -0.0001     0.0001    -0.0001     0.0003     0.0001
PROBES  33 THRU  40        0.0014     0.0000     0.0003     0.0004     0.0001     0.0002     0.0009     0.0000
PROBES  41 THRU  48        0.0003     0.0003     0.0003    -0.0000     0.0001     0.0005     0.0003     0.0003
PROBES  49 THRU  56        0.0003     0.0003     0.0004     0.0002     0.0007     0.0004     0.0001     0.0002
PROBES  57 THRU  64        0.0005     0.0011     0.0001     0.0005     0.0002     0.0003     0.0007    -0.0001
PROBES  65 THRU  72        0.0002     0.0007     0.0006     0.0003     0.0009     0.0003     0.0004     0.0003
PROBES  73 THRU  80        0.0000     0.0001     0.0002     0.0004     0.0003     0.0003     0.0005     0.0005
PROBES  81 THRU  88        0.0004     0.0003     0.0000     0.0014     0.0007     0.0003     0.0003     0.0005
PROBES  89 THRU  96        0.0014     0.0004     0.0004    -0.0001     0.0058     0.0008     0.0002    -0.0001
PROBES  97 THRU 104       -0.0006     0.0003     0.0001     0.0001     0.0006     0.0002     0.0010     0.0003
PROBES 105 THRU 112        0.0002     0.0005     0.0007     0.0003     0.0003     0.0002     0.0001     0.0003
PROBES 113 THRU 120        0.0003    -0.0011     0.0885    -0.0006     0.0003     0.0001    -0.0006    -0.0001
PROBES 121 THRU 126        0.0003     0.0000     0.0003     0.0002     0.0002    -0.0001

   AXIAL POSITION # 33, AXIAL LOCATION =  4.50 INCHES, SALT OBSERVED =0.0015 G-SALT/LBM-WATER, SALT MISSED =0.0044 G-SALT/LBM-WATER

PROBES   1 THRU   8        0.0003    -0.0009     0.0000     0.0001    -0.0000     0.0003     0.0003     0.0003
PROBES   9 THRU  16        0.0003     0.0002     0.0003     0.0002     0.0002     0.0003     0.0002     0.0003
PROBES  17 THRU  24        0.0002     0.0001     0.0003     0.0002     0.0002     0.0003     0.0004     0.0003
PROBES  25 THRU  32        0.0004     0.0001     0.0023    -0.0001     0.0001     0.0003     0.0002     0.0002
PROBES  33 THRU  40        0.0003     0.0001     0.0003     0.0004     0.0002     0.0002     0.0009     0.0000
PROBES  41 THRU  48        0.0003     0.0003     0.0003    -0.0000     0.0001     0.0005     0.0003     0.0003
PROBES  49 THRU  56        0.0003     0.0003     0.0004     0.0002     0.0007     0.0004     0.0001     0.0002
PROBES  57 THRU  64        0.0002     0.0003     0.0002     0.0004     0.0002     0.0003     0.0003     0.0007
PROBES  65 THRU  72        0.0002     0.0007     0.0005     0.0003     0.0013     0.0003     0.0004     0.0003
PROBES  73 THRU  80        0.0000     0.0001     0.0002     0.0004     0.0003     0.0003     0.0005     0.0004
PROBES  81 THRU  88        0.0004     0.0003     0.0000     0.0014     0.0006     0.0003     0.0003     0.0004
PROBES  89 THRU  96        0.0011     0.0003     0.0000    -0.0000     0.0049     0.0016     0.0002    -0.0010
PROBES  97 THRU 104        0.0004     0.0003     0.0001     0.0001    -0.0001     0.0003     0.0003    -0.0005
PROBES 105 THRU 112        0.0002     0.0005     0.0007     0.0003     0.0003     0.0002     0.0002     0.0002
PROBES 113 THRU 120        0.0003    -0.0010     0.0773    -0.0001     0.0003     0.0002    -0.0001     0.0003
PROBES 121 THRU 126        0.0004     0.0001     0.0004     0.0002     0.0002    -0.0001

   AXIAL POSITION # 34, AXIAL LOCATION =  4.25 INCHES, SALT OBSERVED =0.0015 G-SALT/LBM-WATER, SALT MISSED =0.0044 G-SALT/LBM-WATER

PROBES   1 THRU   8        0.0005    -0.0005    -0.0000     0.0003    -0.0000     0.0003     0.0003     0.0003
PROBES   9 THRU  16        0.0003     0.0002     0.0003     0.0002     0.0002     0.0003     0.0002     0.0003
PROBES  17 THRU  24        0.0002     0.0001     0.0004     0.0002     0.0003     0.0003     0.0012     0.0010
PROBES  25 THRU  32        0.0003     0.0002     0.0023    -0.0001     0.0001    -0.0001     0.0003     0.0001
PROBES  33 THRU  40        0.0014     0.0001     0.0003     0.0004     0.0002     0.0002     0.0009     0.0002
PROBES  41 THRU  48        0.0003     0.0006     0.0003     0.0004     0.0001     0.0003     0.0003     0.0003
PROBES  49 THRU  56        0.0004     0.0007     0.0004     0.0002     0.0007    -0.0007     0.0003     0.0001
PROBES  57 THRU  64        0.0005     0.0011     0.0002     0.0005     0.0002     0.0003     0.0003     0.0003
PROBES  65 THRU  72        0.0002     0.0015     0.0006     0.0004     0.0054     0.0003     0.0007     0.0001
PROBES  73 THRU  80        0.0001     0.0002     0.0003     0.0003     0.0005    -0.0005     0.0005     0.0005
PROBES  81 THRU  88        0.0004     0.0003     0.0002     0.0014     0.0007     0.0003     0.0003     0.0005
PROBES  89 THRU  96        0.0014     0.0005     0.0002    -0.0001     0.0072     0.0008     0.0002    -0.0010
PROBES  97 THRU 104        0.0030     0.0003     0.0001     0.0001     0.0006     0.0002     0.0010     0.0003
PROBES 105 THRU 112        0.0002     0.0005     0.0007     0.0003     0.0003     0.0002     0.0003     0.0002
PROBES 113 THRU 120        0.0003     0.0016     0.0643     0.0003     0.0003     0.0002    -0.0001     0.0003
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PROBES 121 THRU 126        0.0004    0.0001    0.0004    0.0002    0.0002   -0.0002

   AXIAL POSITION # 35, AXIAL LOCATION =  4.00 INCHES, SALT OBSERVED =0.0011 G-SALT/LBM-WATER, SALT MISSED =0.0048 G-SALT/LBM-WATER

PROBES   1 THRU   8        0.0003   -0.0009    0.0000    0.0002    0.0002    0.0003    0.0004    0.0003
PROBES   9 THRU  16        0.0003    0.0002    0.0003    0.0003    0.0003    0.0002    0.0002    0.0003
PROBES  17 THRU  24        0.0002    0.0001    0.0003    0.0002    0.0004    0.0003   -0.0006    0.0010
PROBES  25 THRU  32        0.0003    0.0003    0.0006   -0.0005    0.0002    0.0006    0.0002    0.0001
PROBES  33 THRU  40        0.0007    0.0002   -0.0017   -0.0001    0.0003    0.0002    0.0006    0.0001
PROBES  41 THRU  48        0.0003    0.0006    0.0003    0.0004    0.0000    0.0004    0.0004    0.0003
PROBES  49 THRU  56        0.0002    0.0010    0.0004    0.0003    0.0011   -0.0012    0.0004    0.0002
PROBES  57 THRU  64        0.0005    0.0003    0.0002    0.0003    0.0002    0.0003   -0.0005    0.0003
PROBES  65 THRU  72        0.0002    0.0007    0.0006    0.0004    0.0078    0.0003    0.0007    0.0002
PROBES  73 THRU  80        0.0000    0.0001    0.0003    0.0003    0.0006    0.0003    0.0004    0.0005
PROBES  81 THRU  88        0.0004    0.0003    0.0002    0.0014    0.0001    0.0003    0.0004    0.0005
PROBES  89 THRU  96        0.0016    0.0005    0.0002   -0.0002    0.0061    0.0016    0.0001   -0.0010
PROBES  97 THRU 104        0.0030    0.0004    0.0002    0.0002    0.0006    0.0003    0.0003   -0.0001
PROBES 105 THRU 112        0.0003    0.0005    0.0007    0.0003    0.0003    0.0002    0.0001    0.0002
PROBES 113 THRU 120        0.0003    0.0023    0.0424   -0.0002    0.0003    0.0001   -0.0001    0.0007
PROBES 121 THRU 126        0.0004    0.0000    0.0004    0.0002    0.0002    0.0000

   AXIAL POSITION # 36, AXIAL LOCATION =  3.75 INCHES, SALT OBSERVED =0.0009 G-SALT/LBM-WATER, SALT MISSED =0.0049 G-SALT/LBM-WATER

PROBES   1 THRU   8        0.0005   -0.0013    0.0000    0.0007   -0.0000    0.0002    0.0004    0.0003
PROBES   9 THRU  16        0.0003    0.0003    0.0003    0.0003    0.0003    0.0002    0.0003    0.0003
PROBES  17 THRU  24        0.0002    0.0001    0.0003    0.0002    0.0003    0.0003   -0.0006    0.0007
PROBES  25 THRU  32        0.0003    0.0003   -0.0001   -0.0001    0.0002    0.0003    0.0002    0.0001
PROBES  33 THRU  40       -0.0001    0.0003   -0.0001   -0.0001    0.0003    0.0002    0.0005    0.0001
PROBES  41 THRU  48        0.0003    0.0006    0.0003    0.0006    0.0000    0.0007    0.0002    0.0004
PROBES  49 THRU  56        0.0007    0.0007    0.0004    0.0003    0.0011   -0.0012    0.0001    0.0003
PROBES  57 THRU  64        0.0006   -0.0013    0.0002    0.0003    0.0002    0.0003    0.0007   -0.0001
PROBES  65 THRU  72        0.0003   -0.0001    0.0004    0.0004    0.0035    0.0004    0.0003    0.0002
PROBES  73 THRU  80        0.0000    0.0002    0.0003    0.0004    0.0003   -0.0001    0.0004    0.0004
PROBES  81 THRU  88        0.0004    0.0004    0.0003    0.0012    0.0005    0.0003    0.0004    0.0005
PROBES  89 THRU  96        0.0016    0.0005    0.0002    0.0001    0.0055    0.0008    0.0002    0.0004
PROBES  97 THRU 104       -0.0011    0.0003    0.0002    0.0002    0.0006    0.0003    0.0003   -0.0001
PROBES 105 THRU 112        0.0003    0.0006    0.0007    0.0003    0.0004    0.0002    0.0004    0.0002
PROBES 113 THRU 120        0.0003    0.0032    0.0392    0.0005    0.0003    0.0001   -0.0011    0.0003
PROBES 121 THRU 126        0.0005    0.0001    0.0004    0.0002    0.0002   -0.0001

   AXIAL POSITION # 37, AXIAL LOCATION =  3.50 INCHES, SALT OBSERVED =0.0008 G-SALT/LBM-WATER, SALT MISSED =0.0050 G-SALT/LBM-WATER

PROBES   1 THRU   8        0.0005   -0.0017    0.0000    0.0007    0.0002    0.0003    0.0005    0.0007
PROBES   9 THRU  16        0.0003    0.0003    0.0003    0.0003    0.0003    0.0002    0.0003    0.0003
PROBES  17 THRU  24        0.0002    0.0001    0.0003    0.0002    0.0003    0.0003   -0.0006    0.0007
PROBES  25 THRU  32        0.0003    0.0003   -0.0001   -0.0001    0.0002    0.0003    0.0002    0.0001
PROBES  33 THRU  40       -0.0001    0.0003   -0.0001    0.0009    0.0003    0.0002    0.0005    0.0001
PROBES  41 THRU  48        0.0003    0.0006    0.0003    0.0006    0.0000    0.0005    0.0004    0.0003
PROBES  49 THRU  56        0.0003   -0.0005    0.0004    0.0003    0.0007   -0.0007    0.0003    0.0002
PROBES  57 THRU  64        0.0005   -0.0001    0.0001    0.0004    0.0003    0.0004   -0.0005   -0.0001
PROBES  65 THRU  72        0.0003    0.0007    0.0003    0.0003    0.0010    0.0003    0.0005   -0.0000
PROBES  73 THRU  80        0.0001    0.0001    0.0004    0.0003    0.0004   -0.0001    0.0004    0.0005
PROBES  81 THRU  88        0.0004    0.0004    0.0003    0.0012    0.0005    0.0003    0.0004    0.0005
PROBES  89 THRU  96        0.0016    0.0005    0.0000    0.0001    0.0072    0.0008    0.0002    0.0004
PROBES  97 THRU 104       -0.0011    0.0003    0.0002    0.0002    0.0006    0.0003    0.0003   -0.0001
PROBES 105 THRU 112        0.0003    0.0006    0.0003    0.0005    0.0008    0.0002    0.0004    0.0002
PROBES 113 THRU 120        0.0003    0.0028    0.0331    0.0002    0.0003    0.0001   -0.0011    0.0003
PROBES 121 THRU 126        0.0005    0.0001    0.0007    0.0002    0.0002   -0.0002

   AXIAL POSITION # 38, AXIAL LOCATION =  3.25 INCHES, SALT OBSERVED =0.0006 G-SALT/LBM-WATER, SALT MISSED =0.0052 G-SALT/LBM-WATER
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PROBES   1 THRU   8      0.0005   -0.0013    0.0000    0.0007    0.0002    0.0003    0.0005    0.0007
PROBES   9 THRU  16      0.0003    0.0003    0.0003    0.0003    0.0003    0.0002    0.0003    0.0003
PROBES  17 THRU  24      0.0002    0.0001    0.0003    0.0002    0.0003    0.0003   -0.0006    0.0007
PROBES  25 THRU  32      0.0003    0.0003   -0.0001   -0.0001    0.0002   -0.0005    0.0003    0.0001
PROBES  33 THRU  40      0.0014    0.0002    0.0006   -0.0001    0.0003    0.0002    0.0005    0.0001
PROBES  41 THRU  48      0.0003    0.0010    0.0003    0.0003    0.0000    0.0007    0.0003    0.0004
PROBES  49 THRU  56      0.0003   -0.0009    0.0004    0.0003    0.0003   -0.0001    0.0003    0.0002
PROBES  57 THRU  64      0.0003   -0.0009    0.0002    0.0003    0.0002    0.0003    0.0007   -0.0001
PROBES  65 THRU  72      0.0003    0.0007    0.0006    0.0004    0.0004    0.0003    0.0004   -0.0000
PROBES  73 THRU  80      0.0001    0.0001    0.0004    0.0003    0.0004   -0.0001    0.0004    0.0005
PROBES  81 THRU  88      0.0004    0.0004    0.0001    0.0011    0.0005    0.0003    0.0004    0.0005
PROBES  89 THRU  96      0.0016    0.0005    0.0002    0.0003    0.0055    0.0008    0.0002    0.0004
PROBES  97 THRU 104     -0.0011    0.0003    0.0002    0.0002    0.0006    0.0003    0.0003   -0.0001
PROBES 105 THRU 112      0.0003    0.0005    0.0003    0.0005    0.0008    0.0003    0.0002    0.0002
PROBES 113 THRU 120      0.0002    0.0003    0.0228    0.0002    0.0003    0.0001   -0.0001    0.0007
PROBES 121 THRU 126      0.0004    0.0001    0.0005    0.0002    0.0002    0.0000

   AXIAL POSITION # 39, AXIAL LOCATION =  3.00 INCHES, SALT OBSERVED =0.0005 G-SALT/LBM-WATER, SALT MISSED =0.0054 G-SALT/LBM-WATER

PROBES   1 THRU   8      0.0005   -0.0013    0.0000    0.0007    0.0002    0.0003    0.0005    0.0007
PROBES   9 THRU  16      0.0003    0.0003    0.0003    0.0003    0.0003    0.0002    0.0003    0.0004
PROBES  17 THRU  24      0.0002    0.0001    0.0003    0.0002    0.0003    0.0003   -0.0006    0.0007
PROBES  25 THRU  32      0.0003    0.0003   -0.0001   -0.0001    0.0002   -0.0005    0.0002    0.0001
PROBES  33 THRU  40      0.0007    0.0002    0.0006   -0.0001    0.0003    0.0002    0.0007    0.0003
PROBES  41 THRU  48      0.0003    0.0006    0.0003    0.0002    0.0001    0.0003    0.0003    0.0004
PROBES  49 THRU  56      0.0004   -0.0001    0.0004    0.0003   -0.0001   -0.0001    0.0003    0.0002
PROBES  57 THRU  64      0.0005   -0.0001    0.0001    0.0003    0.0002    0.0003    0.0007   -0.0001
PROBES  65 THRU  72      0.0003    0.0007    0.0003    0.0003    0.0003    0.0004    0.0004   -0.0000
PROBES  73 THRU  80      0.0001    0.0001    0.0004    0.0003    0.0004   -0.0001    0.0004    0.0005
PROBES  81 THRU  88      0.0004    0.0004    0.0003    0.0012    0.0005    0.0003    0.0004    0.0005
PROBES  89 THRU  96      0.0016    0.0005    0.0001    0.0002    0.0049   -0.0006    0.0003    0.0004
PROBES  97 THRU 104     -0.0011    0.0003    0.0002    0.0002   -0.0001    0.0002    0.0003   -0.0001
PROBES 105 THRU 112      0.0003    0.0005    0.0003    0.0005    0.0008    0.0002    0.0004    0.0002
PROBES 113 THRU 120      0.0003    0.0005    0.0134    0.0002    0.0003    0.0001   -0.0001    0.0011
PROBES 121 THRU 126      0.0006    0.0000    0.0003    0.0002    0.0002   -0.0002

   AXIAL POSITION # 40, AXIAL LOCATION =  2.75 INCHES, SALT OBSERVED =0.0005 G-SALT/LBM-WATER, SALT MISSED =0.0054 G-SALT/LBM-WATER

PROBES   1 THRU   8      0.0004    0.0006    0.0000    0.0002    0.0003    0.0002    0.0003    0.0005
PROBES   9 THRU  16      0.0004    0.0003    0.0003    0.0003    0.0003    0.0003    0.0004    0.0003
PROBES  17 THRU  24      0.0001    0.0001    0.0004    0.0003    0.0003    0.0003   -0.0006    0.0007
PROBES  25 THRU  32      0.0003    0.0003   -0.0001   -0.0001    0.0003    0.0003    0.0002    0.0001
PROBES  33 THRU  40     -0.0013    0.0002    0.0003   -0.0012    0.0006    0.0002    0.0005    0.0000
PROBES  41 THRU  48      0.0003   -0.0001    0.0003    0.0003    0.0001    0.0003    0.0003    0.0004
PROBES  49 THRU  56      0.0005   -0.0009    0.0003    0.0005    0.0003   -0.0007    0.0003    0.0003
PROBES  57 THRU  64      0.0005   -0.0001    0.0002    0.0004    0.0002    0.0003    0.0007   -0.0001
PROBES  65 THRU  72      0.0003   -0.0001    0.0004    0.0004    0.0003    0.0002    0.0004    0.0001
PROBES  73 THRU  80      0.0001    0.0001    0.0003    0.0003    0.0004   -0.0001    0.0004    0.0004
PROBES  81 THRU  88      0.0004    0.0004    0.0003    0.0012    0.0005    0.0003    0.0004    0.0005
PROBES  89 THRU  96      0.0016    0.0005    0.0001    0.0003    0.0049    0.0012    0.0003    0.0004
PROBES  97 THRU 104     -0.0011    0.0003    0.0002    0.0002    0.0003    0.0004   -0.0016   -0.0013
PROBES 105 THRU 112      0.0003    0.0005    0.0003    0.0005    0.0008    0.0003    0.0003    0.0002
PROBES 113 THRU 120      0.0003   -0.0007    0.0176    0.0005    0.0003    0.0001   -0.0001    0.0011
PROBES 121 THRU 126      0.0006    0.0001    0.0007    0.0002    0.0002   -0.0002

   AXIAL POSITION # 41, AXIAL LOCATION =  2.50 INCHES, SALT OBSERVED =0.0004 G-SALT/LBM-WATER, SALT MISSED =0.0054 G-SALT/LBM-WATER

PROBES   1 THRU   8      0.0005   -0.0013    0.0001    0.0002    0.0003    0.0002    0.0003    0.0005
PROBES   9 THRU  16      0.0004    0.0004    0.0004    0.0007    0.0004    0.0000    0.0003    0.0003
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PROBES  17 THRU  24        0.0002     0.0001     0.0003     0.0002     0.0004     0.0004    -0.0001    -0.0001
PROBES  25 THRU  32        0.0004     0.0004     0.0003    -0.0001     0.0003    -0.0001     0.0002     0.0001
PROBES  33 THRU  40       -0.0005     0.0002     0.0003    -0.0012     0.0006     0.0002     0.0005     0.0000
PROBES  41 THRU  48        0.0003    -0.0001     0.0003     0.0003     0.0001     0.0004     0.0005     0.0003
PROBES  49 THRU  56        0.0002    -0.0001     0.0004     0.0004     0.0003    -0.0007     0.0005     0.0003
PROBES  57 THRU  64        0.0006    -0.0001     0.0002     0.0004     0.0002     0.0003     0.0007    -0.0005
PROBES  65 THRU  72        0.0003     0.0003     0.0003     0.0003     0.0002     0.0003     0.0003     0.0004
PROBES  73 THRU  80        0.0003     0.0001     0.0003     0.0003     0.0004    -0.0001     0.0004     0.0004
PROBES  81 THRU  88        0.0004     0.0004     0.0003     0.0012     0.0005     0.0003     0.0004     0.0005
PROBES  89 THRU  96        0.0016     0.0005     0.0001     0.0005     0.0028     0.0003     0.0003    -0.0001
PROBES  97 THRU 104       -0.0001     0.0003     0.0002     0.0002    -0.0001     0.0002    -0.0001    -0.0001
PROBES 105 THRU 112        0.0003     0.0005     0.0003     0.0005     0.0008     0.0003     0.0003     0.0002
PROBES 113 THRU 120        0.0002    -0.0011     0.0139     0.0003     0.0003     0.0001    -0.0011     0.0003
PROBES 121 THRU 126        0.0005     0.0001     0.0002     0.0002     0.0002    -0.0002

   AXIAL POSITION # 42, AXIAL LOCATION =  2.25 INCHES, SALT OBSERVED =0.0005 G-SALT/LBM-WATER, SALT MISSED =0.0054 G-SALT/LBM-WATER

PROBES   1 THRU   8        0.0004     0.0003     0.0000     0.0004     0.0003     0.0002     0.0003     0.0005
PROBES   9 THRU  16        0.0004     0.0003     0.0003     0.0003     0.0004     0.0000     0.0003     0.0003
PROBES  17 THRU  24        0.0002     0.0001     0.0003     0.0002     0.0004     0.0004    -0.0001    -0.0001
PROBES  25 THRU  32        0.0004     0.0004     0.0003    -0.0001     0.0003    -0.0001     0.0002     0.0001
PROBES  33 THRU  40       -0.0005     0.0002     0.0003    -0.0012     0.0006     0.0002     0.0005     0.0000
PROBES  41 THRU  48        0.0003    -0.0001     0.0003     0.0003     0.0001     0.0003     0.0003     0.0004
PROBES  49 THRU  56        0.0005    -0.0009     0.0003     0.0004     0.0003    -0.0007     0.0005     0.0003
PROBES  57 THRU  64        0.0006    -0.0001     0.0002     0.0004     0.0002     0.0003    -0.0001    -0.0001
PROBES  65 THRU  72        0.0003     0.0003     0.0003     0.0003     0.0002     0.0003     0.0003     0.0004
PROBES  73 THRU  80        0.0003     0.0001     0.0004     0.0003     0.0005    -0.0008     0.0005     0.0002
PROBES  81 THRU  88        0.0004     0.0005     0.0003     0.0004     0.0004     0.0003     0.0003     0.0005
PROBES  89 THRU  96        0.0011     0.0004     0.0001     0.0006     0.0020    -0.0006     0.0003    -0.0001
PROBES  97 THRU 104       -0.0001     0.0003     0.0002     0.0002    -0.0001     0.0002    -0.0001    -0.0001
PROBES 105 THRU 112        0.0003     0.0005     0.0003     0.0005     0.0008     0.0003     0.0003     0.0002
PROBES 113 THRU 120        0.0003    -0.0009     0.0174     0.0003     0.0003     0.0001    -0.0011     0.0003
PROBES 121 THRU 126        0.0005     0.0001     0.0007     0.0002     0.0002     0.0000

   AXIAL POSITION # 43, AXIAL LOCATION =  2.00 INCHES, SALT OBSERVED =0.0004 G-SALT/LBM-WATER, SALT MISSED =0.0054 G-SALT/LBM-WATER

PROBES   1 THRU   8        0.0005    -0.0013     0.0001     0.0003     0.0001     0.0002     0.0002     0.0004
PROBES   9 THRU  16        0.0003     0.0003     0.0004     0.0007     0.0004     0.0000     0.0003     0.0003
PROBES  17 THRU  24        0.0002     0.0001     0.0003     0.0002     0.0004     0.0004    -0.0001    -0.0001
PROBES  25 THRU  32        0.0004     0.0004     0.0003    -0.0001     0.0003     0.0003     0.0002     0.0001
PROBES  33 THRU  40       -0.0005     0.0001    -0.0021    -0.0006     0.0007     0.0002     0.0005     0.0000
PROBES  41 THRU  48        0.0003    -0.0001     0.0003     0.0003     0.0001     0.0003     0.0003     0.0004
PROBES  49 THRU  56        0.0005    -0.0009     0.0003     0.0004    -0.0001    -0.0001     0.0003     0.0003
PROBES  57 THRU  64        0.0005    -0.0001     0.0002     0.0004     0.0003     0.0003    -0.0001    -0.0001
PROBES  65 THRU  72        0.0003     0.0003     0.0003     0.0003     0.0002     0.0003     0.0004     0.0002
PROBES  73 THRU  80        0.0000     0.0002     0.0004     0.0004     0.0003    -0.0001     0.0004     0.0004
PROBES  81 THRU  88        0.0004     0.0005     0.0002     0.0009     0.0009     0.0003     0.0004     0.0005
PROBES  89 THRU  96        0.0011     0.0004     0.0001     0.0007     0.0024    -0.0001     0.0004     0.0004
PROBES  97 THRU 104       -0.0011     0.0003     0.0002     0.0003    -0.0001     0.0002    -0.0001    -0.0001
PROBES 105 THRU 112        0.0003     0.0005     0.0003     0.0005     0.0008     0.0003     0.0003     0.0002
PROBES 113 THRU 120        0.0003    -0.0004     0.0161     0.0003     0.0003     0.0001    -0.0011     0.0003
PROBES 121 THRU 126        0.0005     0.0001     0.0003     0.0002     0.0002     0.0001

   AXIAL POSITION # 44, AXIAL LOCATION =  1.75 INCHES, SALT OBSERVED =0.0064 G-SALT/LBM-WATER, SALT MISSED =-.0006 G-SALT/LBM-WATER

PROBES   1 THRU   8        0.0004    -0.0001     0.0000     0.0004     0.0003     0.0002     0.0003     0.0005
PROBES   9 THRU  16        0.0004     0.0004     0.0004     0.0007     0.0004     0.0000     0.0003     0.0003
PROBES  17 THRU  24        0.0002     0.0001     0.0003     0.0002     0.0004     0.0004    -0.0001    -0.0001
PROBES  25 THRU  32        0.0004     0.0004     0.0003    -0.0001     0.0003    -0.0001     0.0002     0.0001
PROBES  33 THRU  40       -0.0005     0.0001    -0.0021    -0.0017     0.0006     0.0002     0.0005     0.0000
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PROBES  41 THRU  48        0.0003   -0.0001    0.0003    0.0003    0.0001    0.0004    0.0005    0.0004
PROBES  49 THRU  56        0.0003    0.0003    0.0003    0.0003   -0.0001   -0.0001    0.0003    0.0003
PROBES  57 THRU  64        0.0005   -0.0001    0.0002    0.0005    0.0003    0.0003   -0.0001   -0.0001
PROBES  65 THRU  72        0.0003    0.0003    0.0003    0.0003    0.0002    0.0003    0.0004    0.0003
PROBES  73 THRU  80        0.0001    0.0001    0.0004    0.0004    0.0004   -0.0001    0.0004    0.0004
PROBES  81 THRU  88        0.0004    0.0005    0.0003    0.0004    0.0004    0.0003    0.0003    0.0005
PROBES  89 THRU  96        0.0011    0.0004    0.0001    0.0007    0.0052    0.0008    0.0002   -0.0001
PROBES  97 THRU 104       -0.0006    0.0004    0.0001    0.0003   -0.0005    0.0003   -0.0008   -0.0031
PROBES 105 THRU 112        0.0002    0.0007   -0.0001    0.0003    0.0005    0.0002    0.0002    0.0002
PROBES 113 THRU 120        0.0003   -0.0002    0.0233   -0.0002    0.0003    0.0001    0.0004    0.0003
PROBES 121 THRU 126        0.0004    0.0793    0.0586    0.9785    0.9196    0.3020

   AXIAL POSITION # 45, AXIAL LOCATION =  1.50 INCHES, SALT OBSERVED =0.0002 G-SALT/LBM-WATER, SALT MISSED =0.0056 G-SALT/LBM-WATER

PROBES   1 THRU   8        0.0004    0.0003    0.0000    0.0004    0.0003    0.0002    0.0003    0.0005
PROBES   9 THRU  16        0.0004    0.0004    0.0004    0.0007    0.0004    0.0000    0.0002    0.0003
PROBES  17 THRU  24        0.0002    0.0001    0.0003    0.0002    0.0004    0.0005    0.0025   -0.0001
PROBES  25 THRU  32        0.0004    0.0004    0.0003   -0.0001    0.0003   -0.0001    0.0003    0.0001
PROBES  33 THRU  40        0.0003    0.0003    0.0003   -0.0012    0.0006    0.0002    0.0005    0.0000
PROBES  41 THRU  48        0.0003   -0.0001    0.0003    0.0003    0.0001    0.0004    0.0005    0.0004
PROBES  49 THRU  56        0.0003    0.0003    0.0003    0.0003   -0.0001   -0.0001    0.0003    0.0003
PROBES  57 THRU  64        0.0005   -0.0001    0.0002    0.0004    0.0003    0.0003   -0.0001   -0.0001
PROBES  65 THRU  72        0.0003    0.0003    0.0003    0.0003    0.0002    0.0003    0.0004    0.0003
PROBES  73 THRU  80        0.0001    0.0001    0.0004    0.0004    0.0003   -0.0001    0.0004    0.0004
PROBES  81 THRU  88        0.0004    0.0005    0.0003    0.0004    0.0004    0.0003    0.0003    0.0005
PROBES  89 THRU  96        0.0011    0.0004    0.0001    0.0006    0.0008   -0.0006    0.0005   -0.0015
PROBES  97 THRU 104       -0.0011    0.0003    0.0002    0.0002   -0.0001    0.0002   -0.0001   -0.0001
PROBES 105 THRU 112        0.0003    0.0005    0.0003    0.0005    0.0003    0.0002    0.0002    0.0002
PROBES 113 THRU 120        0.0003   -0.0005    0.0003    0.0005    0.0004    0.0001    0.0004   -0.0001
PROBES 121 THRU 126        0.0004    0.0001    0.0003    0.0002    0.0002    0.0003

   AXIAL POSITION # 46, AXIAL LOCATION =  1.25 INCHES, SALT OBSERVED =0.0002 G-SALT/LBM-WATER, SALT MISSED =0.0056 G-SALT/LBM-WATER

PROBES   1 THRU   8        0.0005   -0.0013    0.0001    0.0003    0.0003    0.0002    0.0003    0.0005
PROBES   9 THRU  16        0.0004    0.0003    0.0004    0.0007    0.0004    0.0000    0.0003    0.0003
PROBES  17 THRU  24        0.0002    0.0001    0.0004    0.0002    0.0004    0.0004   -0.0001   -0.0001
PROBES  25 THRU  32        0.0004    0.0004    0.0003   -0.0001    0.0003   -0.0001    0.0002    0.0001
PROBES  33 THRU  40       -0.0001    0.0003   -0.0001   -0.0006    0.0007    0.0002    0.0007    0.0003
PROBES  41 THRU  48        0.0003   -0.0001    0.0003    0.0003    0.0001    0.0004    0.0005    0.0004
PROBES  49 THRU  56        0.0007   -0.0005    0.0004    0.0003   -0.0001   -0.0001    0.0003    0.0003
PROBES  57 THRU  64        0.0005   -0.0001    0.0002    0.0004    0.0002    0.0003   -0.0001   -0.0001
PROBES  65 THRU  72        0.0003    0.0003    0.0003    0.0003    0.0002    0.0003    0.0006    0.0002
PROBES  73 THRU  80        0.0000    0.0001    0.0004    0.0004    0.0004   -0.0001    0.0004    0.0004
PROBES  81 THRU  88        0.0004    0.0006    0.0007    0.0004    0.0003    0.0003    0.0004    0.0005
PROBES  89 THRU  96        0.0011    0.0004    0.0001    0.0009    0.0012   -0.0001    0.0005   -0.0015
PROBES  97 THRU 104        0.0004    0.0003    0.0002    0.0002   -0.0005    0.0002   -0.0001   -0.0001
PROBES 105 THRU 112        0.0003    0.0005   -0.0001    0.0003    0.0005    0.0002    0.0004    0.0002
PROBES 113 THRU 120        0.0004   -0.0006    0.0001    0.0006    0.0004    0.0001    0.0004   -0.0005
PROBES 121 THRU 126        0.0005    0.0001    0.0008    0.0002    0.0002    0.0003

   AXIAL POSITION # 47, AXIAL LOCATION =  1.00 INCHES, SALT OBSERVED =0.0002 G-SALT/LBM-WATER, SALT MISSED =0.0056 G-SALT/LBM-WATER

PROBES   1 THRU   8        0.0004   -0.0001    0.0000    0.0004    0.0003    0.0002    0.0003    0.0005
PROBES   9 THRU  16        0.0004    0.0003    0.0004    0.0007    0.0004    0.0000    0.0002    0.0004
PROBES  17 THRU  24        0.0002    0.0001    0.0003    0.0002    0.0003    0.0004    0.0004   -0.0009
PROBES  25 THRU  32        0.0004    0.0003   -0.0001   -0.0009    0.0003   -0.0001    0.0002    0.0001
PROBES  33 THRU  40       -0.0001    0.0003   -0.0001   -0.0006    0.0007    0.0002    0.0005    0.0000
PROBES  41 THRU  48        0.0003   -0.0001    0.0003    0.0003    0.0001    0.0004    0.0005    0.0003
PROBES  49 THRU  56        0.0002   -0.0001    0.0004    0.0003   -0.0001   -0.0001    0.0003    0.0003
PROBES  57 THRU  64        0.0005   -0.0001    0.0002    0.0004    0.0003    0.0003   -0.0001   -0.0001
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PROBES  65 THRU  72      0.0003    0.0003    0.0003    0.0003    0.0003    0.0003    0.0004    0.0002
PROBES  73 THRU  80      0.0000    0.0001    0.0004    0.0004    0.0004   -0.0001    0.0004    0.0004
PROBES  81 THRU  88      0.0004    0.0005    0.0003    0.0004    0.0003    0.0003    0.0004    0.0005
PROBES  89 THRU  96      0.0011    0.0003    0.0004    0.0002    0.0012    0.0012    0.0004    0.0004
PROBES  97 THRU 104      0.0004    0.0003    0.0002    0.0002    0.0003    0.0004    0.0007   -0.0009
PROBES 105 THRU 112      0.0003    0.0005   -0.0001    0.0003    0.0005    0.0002    0.0001    0.0002
PROBES 113 THRU 120      0.0002   -0.0008   -0.0001    0.0006    0.0004    0.0001    0.0004   -0.0001
PROBES 121 THRU 126   .  0.0004    0.0000    0.0005    0.0003    0.0002    0.0003
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A5.4. Edge Injection Mixing Data (gm/lbm)

Injection Subchannel: 114

Reynolds Number: 11410

Flow Rate: 185 gpm

Injection Concentration: 25 gm/lbm

Injection Flow Rate: 0.39 lb/min

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**SALT CONCENTRATIONS FOLLOW:

   AXIAL POSITION #  1, AXIAL LOCATION = 42.00 INCHES, SALT OBSERVED =0.0042 G-SALT/LBM-WATER, SALT MISSED =0.0016 G-SALT/LBM-WATER

PROBES    1 THRU   8       0.0003    0.0023    0.0008   -0.0004   -0.0006    0.0023    0.0016    0.0144
PROBES    9 THRU  16       0.0002    0.0002    0.0000   -0.0001   -0.0001    0.0007    0.0095    0.0003
PROBES   17 THRU  24       0.0002    0.0004    0.0007    0.0008    0.0005    0.0005    0.0076    0.0078
PROBES   25 THRU  32       0.0002   -0.0002    0.0016    0.0014    0.0001   -0.0012    0.0001    0.0001
PROBES   33 THRU  40       0.0007    0.0004    0.0003   -0.0012    0.0001    0.0002    0.0009    0.0001
PROBES   41 THRU  48       0.0003    0.0006    0.0004    0.0002    0.0001    0.0003    0.0000    0.0003
PROBES   49 THRU  56      -0.0006    0.0059    0.0007    0.0001    0.0039    0.0018    0.0000    0.0005
PROBES   57 THRU  64       0.0006    0.0088    0.0016    0.0003    0.0003    0.0006    0.0021    0.0111
PROBES   65 THRU  72       0.0016    0.0070    0.0003    0.0003    0.0028    0.0013    0.0005   -0.0005
PROBES   73 THRU  80       0.0025    0.0151    0.0084    0.0055    0.0032    0.0085    0.0012    0.0006
PROBES   81 THRU  88       0.0038    0.0031    0.0037    0.0042    0.0086    0.0055    0.0043    0.0074
PROBES   89 THRU  96       0.0057    0.0108    0.0079    0.0034    0.0134    0.0143    0.0089    0.0145
PROBES   97 THRU 104       0.0236    0.0307    0.0292    0.0123    0.0120    0.0002   -0.0020    0.0007
PROBES  105 THRU 112       0.0002    0.0004    0.0010    0.0004    0.0007    0.0002   -0.0000    0.0006
PROBES  113 THRU 120       0.0003   -0.0011    0.0006    0.0010    0.0046    0.0061    0.0144    0.0172
PROBES  121 THRU 126       0.0229    0.0072   -0.0007    0.0002    0.0004    0.0004

   AXIAL POSITION #  2, AXIAL LOCATION = 36.00 INCHES, SALT OBSERVED =0.0040 G-SALT/LBM-WATER, SALT MISSED =0.0018 G-SALT/LBM-WATER

PROBES    1 THRU   8       0.0003    0.0013    0.0003   -0.0002   -0.0004    0.0006    0.0001    0.0079
PROBES    9 THRU  16       0.0002    0.0003    0.0002    0.0001    0.0000   -0.0001    0.0015    0.0003
PROBES   17 THRU  24       0.0004    0.0006    0.0004    0.0002    0.0004    0.0003    0.0065    0.0018
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PROBES  25 THRU  32        0.0002    -0.0002     0.0016     0.0014     0.0001     0.0003     0.0002     0.0001
PROBES  33 THRU  40        0.0007     0.0002     0.0014    -0.0001     0.0002     0.0003     0.0004     0.0000
PROBES  41 THRU  48        0.0003     0.0010     0.0003     0.0001     0.0000     0.0004    -0.0002     0.0003
PROBES  49 THRU  56       -0.0006     0.0054     0.0005     0.0001     0.0048     0.0036     0.0001     0.0005
PROBES  57 THRU  64        0.0005     0.0090     0.0019     0.0005     0.0004     0.0006     0.0024     0.0113
PROBES  65 THRU  72        0.0021     0.0075     0.0003     0.0003     0.0038     0.0017     0.0007    -0.0005
PROBES  73 THRU  80        0.0020     0.0144     0.0075     0.0035     0.0022     0.0071     0.0008     0.0003
PROBES  81 THRU  88        0.0037     0.0027     0.0035     0.0028     0.0100     0.0060     0.0054     0.0094
PROBES  89 THRU  96        0.0070     0.0134     0.0112     0.0046     0.0145     0.0152     0.0137     0.0164
PROBES  97 THRU 104        0.0410     0.0157     0.0066     0.0020     0.0032     0.0002     0.0010     0.0014
PROBES 105 THRU 112        0.0003     0.0003     0.0021     0.0004     0.0007     0.0002     0.0000     0.0005
PROBES 113 THRU 120        0.0004    -0.0011     0.0013     0.0028     0.0077     0.0115     0.0179     0.0275
PROBES 121 THRU 126        0.0389     0.0056    -0.0004     0.0002     0.0005     0.0013

   AXIAL POSITION #  3, AXIAL LOCATION = 30.00 INCHES, SALT OBSERVED =0.0043 G-SALT/LBM-WATER, SALT MISSED =0.0015 G-SALT/LBM-WATER

PROBES   1 THRU   8        0.0004     0.0003     0.0004    -0.0001    -0.0003     0.0003    -0.0001     0.0005
PROBES   9 THRU  16        0.0002     0.0003     0.0000    -0.0000     0.0001    -0.0000    -0.0000     0.0002
PROBES  17 THRU  24        0.0002     0.0005     0.0003     0.0003     0.0003     0.0002     0.0059     0.0021
PROBES  25 THRU  32        0.0002    -0.0001     0.0020     0.0020     0.0001    -0.0001     0.0001     0.0001
PROBES  33 THRU  40        0.0007     0.0001     0.0006     0.0014     0.0000     0.0003     0.0003    -0.0001
PROBES  41 THRU  48        0.0003     0.0017     0.0002    -0.0002     0.0001     0.0004    -0.0003     0.0003
PROBES  49 THRU  56       -0.0008     0.0049     0.0005     0.0001     0.0032     0.0004     0.0000     0.0001
PROBES  57 THRU  64        0.0002     0.0090     0.0016     0.0003     0.0003     0.0004     0.0010     0.0116
PROBES  65 THRU  72        0.0019     0.0063     0.0002     0.0003     0.0045     0.0015     0.0006    -0.0005
PROBES  73 THRU  80        0.0017     0.0085     0.0049     0.0019     0.0011     0.0057     0.0005     0.0002
PROBES  81 THRU  88        0.0028     0.0025     0.0027     0.0035     0.0098     0.0071     0.0059     0.0119
PROBES  89 THRU  96        0.0088     0.0173     0.0144     0.0062     0.0153     0.0163     0.0179     0.0187
PROBES  97 THRU 104        0.0424     0.0007     0.0000     0.0006     0.0023     0.0001    -0.0016    -0.0001
PROBES 105 THRU 112        0.0004     0.0003     0.0017     0.0003     0.0005     0.0002    -0.0000     0.0005
PROBES 113 THRU 120        0.0003    -0.0011     0.0019     0.0051     0.0132     0.0204     0.0295     0.0446
PROBES 121 THRU 126        0.0488     0.0058    -0.0004     0.0002     0.0005     0.0031

   AXIAL POSITION #  4, AXIAL LOCATION = 24.00 INCHES, SALT OBSERVED =0.0039 G-SALT/LBM-WATER, SALT MISSED =0.0019 G-SALT/LBM-WATER

PROBES   1 THRU   8        0.0004    -0.0001     0.0001     0.0001    -0.0002     0.0002    -0.0000     0.0003
PROBES   9 THRU  16        0.0003     0.0003     0.0001    -0.0001     0.0000    -0.0001     0.0002     0.0002
PROBES  17 THRU  24        0.0002     0.0002     0.0004     0.0003     0.0003     0.0001     0.0056     0.0028
PROBES  25 THRU  32        0.0002    -0.0001     0.0026     0.0020     0.0001    -0.0012     0.0001     0.0001
PROBES  33 THRU  40        0.0011    -0.0001     0.0017     0.0023     0.0003     0.0003     0.0005     0.0002
PROBES  41 THRU  48        0.0003     0.0020     0.0002    -0.0000     0.0001     0.0003     0.0000     0.0003
PROBES  49 THRU  56       -0.0007     0.0031     0.0004     0.0001     0.0036     0.0013     0.0001    -0.0000
PROBES  57 THRU  64       -0.0003     0.0073     0.0013     0.0001     0.0002     0.0003     0.0014     0.0114
PROBES  65 THRU  72        0.0021     0.0055     0.0003     0.0003     0.0057     0.0015     0.0006    -0.0005
PROBES  73 THRU  80        0.0007     0.0005    -0.0000     0.0005    -0.0001     0.0026     0.0004     0.0001
PROBES  81 THRU  88        0.0013    -0.0000    -0.0003    -0.0006     0.0022     0.0055     0.0046     0.0087
PROBES  89 THRU  96        0.0045     0.0127     0.0132     0.0084     0.0149     0.0160     0.0179     0.0193
PROBES  97 THRU 104        0.0049     0.0003     0.0000     0.0007     0.0032     0.0001    -0.0004     0.0003
PROBES 105 THRU 112        0.0002     0.0003     0.0027     0.0003     0.0001     0.0002    -0.0000     0.0005
PROBES 113 THRU 120        0.0003    -0.0011     0.0019     0.0091     0.0262     0.0406     0.0480     0.0260
PROBES 121 THRU 126        0.0115     0.0031    -0.0003     0.0002     0.0005     0.0081

   AXIAL POSITION #  5, AXIAL LOCATION = 23.00 INCHES, SALT OBSERVED =0.0043 G-SALT/LBM-WATER, SALT MISSED =0.0015 G-SALT/LBM-WATER

PROBES   1 THRU   8        0.0004     0.0003     0.0004    -0.0001    -0.0004     0.0003     0.0001     0.0003
PROBES   9 THRU  16        0.0001     0.0002     0.0003     0.0003    -0.0001    -0.0001     0.0001     0.0003
PROBES  17 THRU  24        0.0002     0.0002     0.0003     0.0002     0.0001     0.0001     0.0065     0.0031
PROBES  25 THRU  32        0.0002    -0.0001     0.0023     0.0024    -0.0000    -0.0001     0.0001     0.0001
PROBES  33 THRU  40        0.0021    -0.0002     0.0003     0.0018     0.0002     0.0003     0.0004    -0.0003
PROBES  41 THRU  48        0.0003     0.0023     0.0003    -0.0003     0.0002     0.0002    -0.0000     0.0003
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PROBES  49 THRU  56      -0.0008    0.0041    0.0004    0.0001    0.0045    0.0023    0.0001    0.0003
PROBES  57 THRU  64       0.0003    0.0085    0.0015    0.0003    0.0003    0.0004    0.0014    0.0126
PROBES  65 THRU  72       0.0027    0.0063    0.0003    0.0003    0.0080    0.0016    0.0009   -0.0005
PROBES  73 THRU  80       0.0014    0.0002    0.0000    0.0004   -0.0001    0.0037    0.0004    0.0002
PROBES  81 THRU  88       0.0018    0.0003   -0.0003   -0.0007    0.0010    0.0079    0.0076    0.0127
PROBES  89 THRU  96       0.0059    0.0137    0.0142    0.0120    0.0162    0.0177    0.0215    0.0212
PROBES  97 THRU 104       0.0045    0.0003    0.0001    0.0004    0.0026    0.0002    0.0003    0.0031
PROBES 105 THRU 112       0.0002    0.0003    0.0027    0.0002    0.0004    0.0002   -0.0000    0.0006
PROBES 113 THRU 120       0.0005   -0.0011    0.0039    0.0134    0.0316    0.0467    0.0473    0.0162
PROBES 121 THRU 126       0.0032    0.0033   -0.0004    0.0003    0.0006    0.0100
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A5.5. Peripheral Injection Mixing Data (gm/lbm)

Injection Subchannel: 94

Reynolds Number: 1542

Flow Rate: 25 gpm

Injection Concentration: 25 gm/lbm

Injection Flow Rate: 0.041 lbm/min

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**SALT CONCENTRATIONS FOLLOW:

   AXIAL POSITION #  1, AXIAL LOCATION = 42.00 INCHES, SALT OBSERVED =0.0037 G-SALT/LBM-WATER, SALT MISSED =0.0012 G-SALT/LBM-WATER

PROBES    1 THRU   8         0.0003     0.0013     0.0002    -0.0000    -0.0001     0.0002     0.0001     0.0003
PROBES    9 THRU  16         0.0003     0.0003     0.0003     0.0004     0.0002     0.0003     0.0003     0.0003
PROBES   17 THRU  24         0.0004     0.0007     0.0005     0.0003     0.0004     0.0003     0.0021     0.0010
PROBES   25 THRU  32         0.0002     0.0000     0.0016    -0.0009     0.0003    -0.0001     0.0003     0.0002
PROBES   33 THRU  40        -0.0001     0.0003    -0.0001    -0.0001     0.0003     0.0002     0.0006     0.0004
PROBES   41 THRU  48         0.0003     0.0010     0.0003     0.0002     0.0000     0.0009     0.0006     0.0003
PROBES   49 THRU  56        -0.0007     0.0018     0.0003     0.0003    -0.0006    -0.0023     0.0003     0.0028
PROBES   57 THRU  64         0.0007     0.0100     0.0007     0.0001     0.0003     0.0003    -0.0005     0.0109
PROBES   65 THRU  72         0.0008     0.0015     0.0005     0.0004     0.0016     0.0003     0.0004     0.0003
PROBES   73 THRU  80         0.0068     0.0008     0.0001     0.0011     0.0012     0.0059     0.0016     0.0004
PROBES   81 THRU  88         0.0059     0.0112     0.0042     0.0082     0.0029     0.0097     0.0144     0.0275
PROBES   89 THRU  96         0.0208     0.0310     0.0209     0.0103     0.0171     0.0266     0.0389     0.0333
PROBES   97 THRU 104         0.0122     0.0003     0.0000    -0.0000    -0.0005     0.0005    -0.0012    -0.0005
PROBES  105 THRU 112         0.0003     0.0007    -0.0013     0.0003     0.0005     0.0002     0.0001     0.0002
PROBES  113 THRU 120         0.0002    -0.0006     0.0013     0.0062     0.0191     0.0219     0.0203     0.0150
PROBES  121 THRU 126         0.0087     0.0007     0.0005     0.0002     0.0002     0.0030

   AXIAL POSITION #  2, AXIAL LOCATION = 36.00 INCHES, SALT OBSERVED =0.0043 G-SALT/LBM-WATER, SALT MISSED =0.0006 G-SALT/LBM-WATER

PROBES    1 THRU   8         0.0005     0.0010     0.0001    -0.0000     0.0001     0.0003     0.0004     0.0004
PROBES    9 THRU  16         0.0003     0.0004     0.0006     0.0003     0.0004     0.0001     0.0004     0.0003
PROBES   17 THRU  24         0.0003     0.0002     0.0004     0.0003     0.0005     0.0004     0.0033     0.0003
PROBES   25 THRU  32         0.0002     0.0001     0.0020    -0.0013     0.0004    -0.0012     0.0002     0.0001
PROBES   33 THRU  40         0.0003     0.0003    -0.0005    -0.0012     0.0006     0.0002     0.0006     0.0001
PROBES   41 THRU  48         0.0003     0.0003     0.0004     0.0002     0.0000     0.0006     0.0004     0.0003
PROBES   49 THRU  56        -0.0002     0.0021     0.0004     0.0002     0.0003    -0.0012     0.0002     0.0028
PROBES   57 THRU  64         0.0020     0.0119     0.0010     0.0001     0.0002     0.0003    -0.0009     0.0131
PROBES   65 THRU  72         0.0023     0.0034     0.0005     0.0003     0.0063     0.0004     0.0004     0.0002
PROBES   73 THRU  80         0.0092     0.0002     0.0000     0.0006     0.0007     0.0055     0.0014     0.0003
PROBES   81 THRU  88         0.0065     0.0121     0.0015     0.0046     0.0002     0.0175     0.0223     0.0376
PROBES   89 THRU  96         0.0234     0.0310     0.0147     0.0236     0.0311     0.0483     0.0504     0.0362
PROBES   97 THRU 104         0.0026     0.0004     0.0001    -0.0000    -0.0005     0.0005    -0.0012    -0.0001
PROBES  105 THRU 112         0.0003     0.0006    -0.0009     0.0003     0.0005     0.0002     0.0004     0.0003
PROBES  113 THRU 120         0.0002    -0.0008     0.0067     0.0158     0.0238     0.0201     0.0161     0.0094
PROBES  121 THRU 126         0.0000     0.0001     0.0008     0.0002     0.0002     0.0083

   AXIAL POSITION #  3, AXIAL LOCATION = 30.00 INCHES, SALT OBSERVED =0.0040 G-SALT/LBM-WATER, SALT MISSED =0.0009 G-SALT/LBM-WATER

PROBES    1 THRU   8         0.0005    -0.0009     0.0001     0.0001    -0.0000     0.0002     0.0005     0.0007
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PROBES   9 THRU  16      0.0004     0.0004     0.0006     0.0003     0.0004     0.0001     0.0004     0.0003
PROBES  17 THRU  24      0.0002     0.0004     0.0004     0.0002     0.0004     0.0003     0.0012    -0.0005
PROBES  25 THRU  32      0.0004     0.0002     0.0016    -0.0013     0.0004    -0.0012     0.0002     0.0001
PROBES  33 THRU  40      0.0003     0.0003    -0.0005    -0.0012     0.0006     0.0002     0.0008     0.0004
PROBES  41 THRU  48      0.0003     0.0003     0.0004     0.0002     0.0000     0.0009     0.0005     0.0003
PROBES  49 THRU  56     -0.0008    -0.0005     0.0004     0.0003    -0.0001    -0.0018     0.0002     0.0029
PROBES  57 THRU  64     -0.0002     0.0077     0.0003     0.0003     0.0004     0.0003     0.0003     0.0102
PROBES  65 THRU  72      0.0004     0.0011     0.0007     0.0004     0.0023     0.0002     0.0006     0.0005
PROBES  73 THRU  80      0.0044     0.0001     0.0001     0.0004     0.0002     0.0031     0.0006     0.0001
PROBES  81 THRU  88      0.0034     0.0086     0.0009     0.0028    -0.0000     0.0102     0.0151     0.0364
PROBES  89 THRU  96      0.0210     0.0341     0.0152     0.0158     0.0276     0.0517     0.0594     0.0469
PROBES  97 THRU 104      0.0026     0.0004     0.0001    -0.0000    -0.0005     0.0005    -0.0012    -0.0001
PROBES 105 THRU 112      0.0003     0.0006    -0.0009     0.0003     0.0005     0.0002     0.0004     0.0003
PROBES 113 THRU 120      0.0002    -0.0007     0.0039     0.0169     0.0273     0.0227     0.0157     0.0071
PROBES 121 THRU 126     -0.0001     0.0001     0.0011     0.0002     0.0002     0.0087

   AXIAL POSITION #  4, AXIAL LOCATION = 24.00 INCHES, SALT OBSERVED =0.0041 G-SALT/LBM-WATER, SALT MISSED =0.0008 G-SALT/LBM-WATER

PROBES   1 THRU   8      0.0004     0.0003     0.0000     0.0006     0.0001     0.0002     0.0006     0.0007
PROBES   9 THRU  16      0.0005     0.0004     0.0006     0.0003     0.0005     0.0004     0.0004     0.0003
PROBES  17 THRU  24      0.0002     0.0003     0.0004     0.0003     0.0005     0.0004     0.0004    -0.0001
PROBES  25 THRU  32      0.0004     0.0005     0.0016    -0.0017     0.0004    -0.0012     0.0002     0.0002
PROBES  33 THRU  40     -0.0001     0.0003    -0.0005    -0.0006     0.0005     0.0002     0.0006     0.0004
PROBES  41 THRU  48      0.0003    -0.0001     0.0004     0.0003     0.0000     0.0008     0.0008     0.0003
PROBES  49 THRU  56     -0.0007    -0.0009     0.0004     0.0003    -0.0006    -0.0023     0.0003     0.0028
PROBES  57 THRU  64      0.0003     0.0090     0.0002     0.0002     0.0003     0.0003    -0.0009     0.0123
PROBES  65 THRU  72      0.0011     0.0015     0.0007     0.0005     0.0061     0.0003     0.0004     0.0003
PROBES  73 THRU  80      0.0087     0.0001     0.0005     0.0004    -0.0001     0.0016     0.0004     0.0001
PROBES  81 THRU  88      0.0032     0.0074    -0.0003    -0.0005     0.0002     0.0213     0.0238     0.0443
PROBES  89 THRU  96      0.0216     0.0240     0.0045     0.0337     0.0537     0.0713     0.0671     0.0309
PROBES  97 THRU 104      0.0004     0.0004     0.0001     0.0001    -0.0001     0.0005    -0.0012    -0.0005
PROBES 105 THRU 112      0.0003     0.0007    -0.0017     0.0003     0.0005     0.0002     0.0004     0.0002
PROBES 113 THRU 120      0.0003    -0.0008     0.0159     0.0253     0.0196     0.0037     0.0076    -0.0001
PROBES 121 THRU 126      0.0005     0.0000     0.0007     0.0002     0.0002     0.0149

   AXIAL POSITION #  5, AXIAL LOCATION = 23.00 INCHES, SALT OBSERVED =0.0039 G-SALT/LBM-WATER, SALT MISSED =0.0010 G-SALT/LBM-WATER

PROBES   1 THRU   8      0.0005     0.0006    -0.0000     0.0001     0.0003     0.0002     0.0004     0.0005
PROBES   9 THRU  16      0.0005     0.0004     0.0006     0.0003     0.0005     0.0004     0.0004     0.0003
PROBES  17 THRU  24      0.0002     0.0003     0.0004     0.0003     0.0005     0.0004     0.0029    -0.0009
PROBES  25 THRU  32      0.0005     0.0003     0.0023    -0.0013     0.0004    -0.0012     0.0002     0.0001
PROBES  33 THRU  40     -0.0001     0.0001    -0.0026    -0.0017     0.0006     0.0002     0.0006     0.0004
PROBES  41 THRU  48      0.0003     0.0003     0.0004     0.0002     0.0000     0.0010     0.0006     0.0003
PROBES  49 THRU  56     -0.0008     0.0003     0.0004     0.0003    -0.0006    -0.0018     0.0002     0.0028
PROBES  57 THRU  64      0.0006     0.0099     0.0003     0.0003     0.0003     0.0003    -0.0005     0.0119
PROBES  65 THRU  72      0.0006     0.0007     0.0007     0.0005     0.0038     0.0002     0.0005     0.0003
PROBES  73 THRU  80      0.0092     0.0001     0.0005     0.0004     0.0000     0.0019     0.0004     0.0001
PROBES  81 THRU  88      0.0037     0.0093    -0.0002    -0.0003     0.0001     0.0203     0.0261     0.0472
PROBES  89 THRU  96      0.0234     0.0285     0.0042     0.0304     0.0491     0.0679     0.0671     0.0309
PROBES  97 THRU 104      0.0013     0.0004     0.0001     0.0001    -0.0001     0.0005    -0.0012    -0.0001
PROBES 105 THRU 112      0.0003     0.0007    -0.0017     0.0003     0.0004     0.0002     0.0004     0.0002
PROBES 113 THRU 120      0.0002    -0.0008     0.0120     0.0221     0.0139     0.0023     0.0071    -0.0005
PROBES 121 THRU 126      0.0007     0.0000     0.0005     0.0002     0.0002     0.0098

   AXIAL POSITION #  6, AXIAL LOCATION = 22.00 INCHES, SALT OBSERVED =0.0042 G-SALT/LBM-WATER, SALT MISSED =0.0007 G-SALT/LBM-WATER

PROBES   1 THRU   8      0.0007    -0.0013     0.0000     0.0003     0.0002     0.0002     0.0004     0.0005
PROBES   9 THRU  16      0.0005     0.0004     0.0006     0.0003     0.0005     0.0004     0.0004     0.0003
PROBES  17 THRU  24      0.0002     0.0003     0.0003     0.0002     0.0005     0.0004     0.0004    -0.0009
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PROBES  25 THRU  32       0.0004    0.0005    0.0016   -0.0013    0.0004   -0.0012    0.0002    0.0001
PROBES  33 THRU  40      -0.0001    0.0001   -0.0026   -0.0017    0.0007    0.0002    0.0006    0.0004
PROBES  41 THRU  48       0.0003    0.0003    0.0004    0.0002    0.0000    0.0010    0.0006    0.0003
PROBES  49 THRU  56      -0.0005   -0.0014    0.0004    0.0004   -0.0006   -0.0018    0.0002    0.0028
PROBES  57 THRU  64      -0.0005    0.0067    0.0002    0.0004    0.0003    0.0003   -0.0013    0.0085
PROBES  65 THRU  72       0.0001    0.0011    0.0006    0.0004    0.0010    0.0003    0.0004    0.0003
PROBES  73 THRU  80       0.0041    0.0001    0.0005    0.0004   -0.0001    0.0010    0.0003    0.0002
PROBES  81 THRU  88       0.0017    0.0080   -0.0003    0.0012    0.0001    0.0095    0.0190    0.0434
PROBES  89 THRU  96       0.0231    0.0358    0.0101    0.0148    0.0370    0.0618    0.0843    0.0600
PROBES  97 THRU 104       0.0004    0.0004    0.0001    0.0001   -0.0001    0.0005   -0.0012   -0.0001
PROBES 105 THRU 112       0.0003    0.0007   -0.0017    0.0003    0.0004    0.0002    0.0004    0.0002
PROBES 113 THRU 120       0.0002   -0.0004    0.0075    0.0261    0.0292    0.0094    0.0111   -0.0001
PROBES 121 THRU 126       0.0005    0.0000    0.0017    0.0002    0.0002    0.0122

   AXIAL POSITION #  7, AXIAL LOCATION = 21.00 INCHES, SALT OBSERVED =0.0036 G-SALT/LBM-WATER, SALT MISSED =0.0013 G-SALT/LBM-WATER

PROBES   1 THRU   8       0.0006   -0.0021   -0.0000    0.0003    0.0002    0.0002    0.0005    0.0007
PROBES   9 THRU  16       0.0005    0.0005    0.0008    0.0003    0.0005    0.0001    0.0004    0.0003
PROBES  17 THRU  24       0.0002    0.0003    0.0003    0.0003    0.0004    0.0004    0.0004   -0.0009
PROBES  25 THRU  32       0.0004    0.0005    0.0016   -0.0021    0.0004    0.0003    0.0003    0.0002
PROBES  33 THRU  40      -0.0001    0.0003   -0.0005   -0.0006    0.0005    0.0002    0.0006    0.0004
PROBES  41 THRU  48       0.0003    0.0003    0.0004    0.0002    0.0000    0.0010    0.0006    0.0003
PROBES  49 THRU  56      -0.0005   -0.0014    0.0004    0.0004   -0.0006   -0.0018    0.0002    0.0028
PROBES  57 THRU  64      -0.0002    0.0028    0.0001    0.0004    0.0003    0.0003    0.0003    0.0043
PROBES  65 THRU  72       0.0002   -0.0001    0.0004    0.0004    0.0003    0.0002    0.0005    0.0003
PROBES  73 THRU  80       0.0007    0.0002    0.0004    0.0004   -0.0001   -0.0001    0.0003    0.0003
PROBES  81 THRU  88       0.0006    0.0030   -0.0004    0.0002    0.0001    0.0051    0.0088    0.0315
PROBES  89 THRU  96       0.0153    0.0296    0.0094    0.0072    0.0251    0.0461    0.0827    0.0629
PROBES  97 THRU 104       0.0004    0.0004    0.0001    0.0001   -0.0005    0.0005   -0.0012   -0.0001
PROBES 105 THRU 112       0.0003    0.0004   -0.0009    0.0003    0.0004    0.0002    0.0004    0.0002
PROBES 113 THRU 120       0.0003   -0.0003    0.0046    0.0233    0.0322    0.0140    0.0111    0.0011
PROBES 121 THRU 126       0.0005    0.0000    0.0012    0.0002    0.0002    0.0119

   AXIAL POSITION #  8, AXIAL LOCATION = 20.00 INCHES, SALT OBSERVED =0.0036 G-SALT/LBM-WATER, SALT MISSED =0.0014 G-SALT/LBM-WATER

PROBES   1 THRU   8       0.0004    0.0010   -0.0000    0.0003    0.0002    0.0002    0.0004    0.0005
PROBES   9 THRU  16       0.0005    0.0004    0.0006    0.0003    0.0005    0.0004    0.0004    0.0003
PROBES  17 THRU  24       0.0002    0.0002    0.0003    0.0002    0.0005    0.0004    0.0004   -0.0009
PROBES  25 THRU  32       0.0005    0.0003    0.0023   -0.0013    0.0004   -0.0012    0.0002    0.0002
PROBES  33 THRU  40      -0.0001    0.0003   -0.0005   -0.0006    0.0005    0.0002    0.0006    0.0004
PROBES  41 THRU  48       0.0003    0.0003    0.0004    0.0003    0.0000    0.0008    0.0008    0.0004
PROBES  49 THRU  56      -0.0006   -0.0001    0.0004    0.0004   -0.0006   -0.0023    0.0003    0.0029
PROBES  57 THRU  64      -0.0004    0.0071    0.0002    0.0004    0.0003    0.0003   -0.0013    0.0096
PROBES  65 THRU  72       0.0002   -0.0010    0.0003    0.0004    0.0014    0.0002    0.0004    0.0004
PROBES  73 THRU  80       0.0051    0.0001    0.0005    0.0004   -0.0002   -0.0005    0.0003    0.0002
PROBES  81 THRU  88       0.0021    0.0063   -0.0004   -0.0007    0.0004    0.0157    0.0218    0.0449
PROBES  89 THRU  96       0.0203    0.0265    0.0027    0.0222    0.0461    0.0655    0.0716    0.0369
PROBES  97 THRU 104      -0.0001    0.0004    0.0001    0.0003    0.0003    0.0005   -0.0012   -0.0001
PROBES 105 THRU 112       0.0003    0.0004   -0.0009    0.0003    0.0005    0.0002    0.0002    0.0002
PROBES 113 THRU 120       0.0002   -0.0007    0.0132    0.0230    0.0109    0.0016    0.0051   -0.0001
PROBES 121 THRU 126       0.0005   -0.0000    0.0017    0.0002    0.0002    0.0078

   AXIAL POSITION #  9, AXIAL LOCATION = 19.00 INCHES, SALT OBSERVED =0.0033 G-SALT/LBM-WATER, SALT MISSED =0.0016 G-SALT/LBM-WATER

PROBES   1 THRU   8       0.0004    0.0003   -0.0001    0.0003    0.0002    0.0002    0.0005    0.0008
PROBES   9 THRU  16       0.0005    0.0005    0.0008    0.0003    0.0005    0.0004    0.0000    0.0003
PROBES  17 THRU  24       0.0002    0.0002    0.0003    0.0002    0.0004    0.0003    0.0004   -0.0009
PROBES  25 THRU  32       0.0005    0.0003    0.0023   -0.0013    0.0004   -0.0012    0.0002    0.0001
PROBES  33 THRU  40      -0.0001    0.0003   -0.0005   -0.0017    0.0007    0.0002    0.0006    0.0004
PROBES  41 THRU  48       0.0003    0.0003    0.0004    0.0002    0.0000    0.0010    0.0006    0.0003
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PROBES  49 THRU  56      -0.0006    0.0003    0.0003    0.0004   -0.0006   -0.0023    0.0003    0.0029
PROBES  57 THRU  64      -0.0005    0.0071    0.0002    0.0004    0.0003    0.0003   -0.0017    0.0099
PROBES  65 THRU  72       0.0003    0.0019    0.0008    0.0004    0.0036    0.0002    0.0007    0.0003
PROBES  73 THRU  80       0.0049    0.0002    0.0004    0.0004   -0.0001    0.0013    0.0004    0.0002
PROBES  81 THRU  88       0.0013    0.0040   -0.0004   -0.0006    0.0003    0.0148    0.0190    0.0393
PROBES  89 THRU  96       0.0153    0.0191    0.0009    0.0301    0.0545    0.0618    0.0641    0.0258
PROBES  97 THRU 104       0.0004    0.0004    0.0001    0.0002   -0.0005    0.0005   -0.0012   -0.0001
PROBES 105 THRU 112       0.0003    0.0004   -0.0009    0.0003    0.0005    0.0002    0.0002    0.0002
PROBES 113 THRU 120       0.0002   -0.0007    0.0122    0.0216    0.0007    0.0004    0.0044    0.0003
PROBES 121 THRU 126       0.0006   -0.0000    0.0008    0.0002    0.0002    0.0081

   AXIAL POSITION # 10, AXIAL LOCATION = 18.00 INCHES, SALT OBSERVED =0.0035 G-SALT/LBM-WATER, SALT MISSED =0.0014 G-SALT/LBM-WATER

PROBES   1 THRU   8       0.0004    0.0003   -0.0000    0.0003    0.0001    0.0002    0.0006    0.0007
PROBES   9 THRU  16       0.0005    0.0004    0.0006    0.0003    0.0004    0.0001    0.0004    0.0003
PROBES  17 THRU  24       0.0002    0.0001    0.0003    0.0002    0.0004    0.0005    0.0033   -0.0009
PROBES  25 THRU  32       0.0004    0.0005    0.0016   -0.0009    0.0003   -0.0001    0.0003    0.0002
PROBES  33 THRU  40      -0.0001    0.0001   -0.0026   -0.0017    0.0007    0.0002    0.0006    0.0004
PROBES  41 THRU  48       0.0003    0.0003    0.0004    0.0002    0.0000    0.0010    0.0006    0.0003
PROBES  49 THRU  56      -0.0004   -0.0005    0.0004    0.0004   -0.0006   -0.0018    0.0002    0.0029
PROBES  57 THRU  64      -0.0004    0.0025    0.0001    0.0005    0.0003    0.0003   -0.0001    0.0051
PROBES  65 THRU  72       0.0002   -0.0001    0.0004    0.0004    0.0004    0.0002    0.0005    0.0003
PROBES  73 THRU  80       0.0013    0.0002    0.0006    0.0003   -0.0001    0.0006    0.0004    0.0003
PROBES  81 THRU  88       0.0006    0.0030   -0.0003   -0.0007    0.0003    0.0060    0.0109    0.0384
PROBES  89 THRU  96       0.0168    0.0279    0.0049    0.0105    0.0323    0.0598    0.0921    0.0567
PROBES  97 THRU 104       0.0013    0.0004    0.0001    0.0001   -0.0008    0.0003   -0.0008   -0.0022
PROBES 105 THRU 112       0.0003    0.0006   -0.0009    0.0003    0.0005    0.0003    0.0003    0.0003
PROBES 113 THRU 120       0.0002   -0.0002    0.0077    0.0258    0.0199    0.0032    0.0066   -0.0001
PROBES 121 THRU 126       0.0005    0.0000    0.0012    0.0002    0.0002    0.0100

   AXIAL POSITION # 11, AXIAL LOCATION = 17.00 INCHES, SALT OBSERVED =0.0035 G-SALT/LBM-WATER, SALT MISSED =0.0014 G-SALT/LBM-WATER

PROBES   1 THRU   8       0.0006   -0.0025   -0.0001    0.0005    0.0002    0.0002    0.0005    0.0008
PROBES   9 THRU  16       0.0005    0.0005    0.0008    0.0003    0.0005    0.0004    0.0000    0.0003
PROBES  17 THRU  24       0.0002    0.0002    0.0004    0.0002    0.0004    0.0003    0.0004   -0.0009
PROBES  25 THRU  32       0.0005    0.0004    0.0023   -0.0013    0.0004   -0.0012    0.0002    0.0001
PROBES  33 THRU  40      -0.0001    0.0001   -0.0026   -0.0017    0.0007    0.0002    0.0006    0.0004
PROBES  41 THRU  48       0.0003    0.0003    0.0004    0.0003    0.0000    0.0008    0.0008    0.0004
PROBES  49 THRU  56       0.0003   -0.0014    0.0004    0.0004   -0.0006   -0.0023    0.0003    0.0031
PROBES  57 THRU  64      -0.0000   -0.0001    0.0002    0.0005    0.0003    0.0003   -0.0009    0.0003
PROBES  65 THRU  72       0.0003   -0.0005    0.0007    0.0004    0.0002    0.0003    0.0006    0.0004
PROBES  73 THRU  80      -0.0000    0.0003    0.0006    0.0003    0.0002    0.0003    0.0004    0.0004
PROBES  81 THRU  88       0.0003    0.0006   -0.0002   -0.0005    0.0003    0.0014    0.0046    0.0272
PROBES  89 THRU  96       0.0101    0.0257    0.0052    0.0017    0.0225    0.0465    0.1037    0.0709
PROBES  97 THRU 104      -0.0001    0.0004    0.0001    0.0003   -0.0008    0.0005   -0.0012   -0.0005
PROBES 105 THRU 112       0.0003    0.0007   -0.0017    0.0003    0.0006    0.0003    0.0003    0.0003
PROBES 113 THRU 120       0.0002   -0.0001    0.0032    0.0330    0.0344    0.0072    0.0071   -0.0001
PROBES 121 THRU 126       0.0005    0.0000    0.0014    0.0002    0.0002    0.0187

   AXIAL POSITION # 12, AXIAL LOCATION = 16.00 INCHES, SALT OBSERVED =0.0036 G-SALT/LBM-WATER, SALT MISSED =0.0013 G-SALT/LBM-WATER

PROBES   1 THRU   8       0.0004   -0.0001   -0.0000    0.0003    0.0002    0.0002    0.0004    0.0005
PROBES   9 THRU  16       0.0005    0.0004    0.0006    0.0003    0.0005    0.0004    0.0004    0.0003
PROBES  17 THRU  24       0.0002    0.0001    0.0003    0.0002    0.0004    0.0003    0.0004   -0.0009
PROBES  25 THRU  32       0.0005    0.0003    0.0006   -0.0017    0.0003   -0.0001    0.0003    0.0002
PROBES  33 THRU  40      -0.0001    0.0001   -0.0026   -0.0017    0.0007    0.0002    0.0006    0.0004
PROBES  41 THRU  48       0.0003    0.0003    0.0004    0.0002    0.0000    0.0010    0.0006    0.0003
PROBES  49 THRU  56      -0.0002   -0.0001    0.0004    0.0003   -0.0006   -0.0023    0.0003    0.0031
PROBES  57 THRU  64      -0.0005    0.0035    0.0001    0.0005    0.0003    0.0003   -0.0009    0.0059
PROBES  65 THRU  72       0.0002   -0.0001    0.0004    0.0004    0.0008    0.0003    0.0008    0.0004
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PROBES 113 THRU 120        0.0002   -0.0001    0.0032    0.0330    0.0344    0.0072    0.0071   -0.0001
PROBES 121 THRU 126        0.0005    0.0000    0.0014    0.0002    0.0002    0.0187

   AXIAL POSITION # 12, AXIAL LOCATION = 16.00 INCHES, SALT OBSERVED =0.0036 G-SALT/LBM-WATER, SALT MISSED =0.0013 G-SALT/LBM-WATER

PROBES   1 THRU   8        0.0004   -0.0001   -0.0000    0.0003    0.0002    0.0002    0.0004    0.0005
PROBES   9 THRU  16        0.0005    0.0004    0.0006    0.0003    0.0005    0.0004    0.0004    0.0003
PROBES  17 THRU  24        0.0002    0.0001    0.0003    0.0002    0.0004    0.0003    0.0004   -0.0009
PROBES  25 THRU  32        0.0005    0.0003    0.0006   -0.0017    0.0003   -0.0001    0.0003    0.0002
PROBES  33 THRU  40       -0.0001    0.0001   -0.0026   -0.0017    0.0007    0.0002    0.0006    0.0004
PROBES  41 THRU  48        0.0003    0.0003    0.0004    0.0002    0.0000    0.0010    0.0006    0.0003
PROBES  49 THRU  56       -0.0002   -0.0001    0.0004    0.0003   -0.0006   -0.0023    0.0003    0.0031
PROBES  57 THRU  64       -0.0005    0.0035    0.0001    0.0005    0.0003    0.0003   -0.0009    0.0059
PROBES  65 THRU  72        0.0002   -0.0001    0.0004    0.0004    0.0008    0.0003    0.0008    0.0004
PROBES  73 THRU  80        0.0021    0.0002    0.0004    0.0004    0.0002   -0.0008    0.0004    0.0003
PROBES  81 THRU  88        0.0007    0.0040   -0.0003   -0.0006    0.0005    0.0110    0.0200    0.0487
PROBES  89 THRU  96        0.0161    0.0224    0.0012    0.0220    0.0572    0.0834    0.0875    0.0372
PROBES  97 THRU 104        0.0008    0.0004    0.0001    0.0002   -0.0005    0.0005   -0.0012   -0.0001
PROBES 105 THRU 112        0.0004    0.0006   -0.0009    0.0003    0.0006    0.0003    0.0003    0.0003
PROBES 113 THRU 120        0.0002   -0.0005    0.0159    0.0255    0.0044    0.0001    0.0025    0.0003
PROBES 121 THRU 126        0.0007   -0.0000    0.0012    0.0002    0.0002    0.0076

   AXIAL POSITION # 13, AXIAL LOCATION = 15.00 INCHES, SALT OBSERVED =0.0033 G-SALT/LBM-WATER, SALT MISSED =0.0016 G-SALT/LBM-WATER

PROBES   1 THRU   8        0.0004    0.0003    0.0000    0.0002    0.0004    0.0003    0.0005    0.0009
PROBES   9 THRU  16        0.0005    0.0005    0.0010    0.0004    0.0003    0.0001    0.0004    0.0003
PROBES  17 THRU  24        0.0002    0.0001    0.0004    0.0002    0.0005    0.0004   -0.0001   -0.0005
PROBES  25 THRU  32        0.0004    0.0005    0.0016   -0.0021    0.0004    0.0003    0.0003    0.0002
PROBES  33 THRU  40       -0.0001    0.0003   -0.0005   -0.0012    0.0002    0.0002    0.0006    0.0004
PROBES  41 THRU  48        0.0003    0.0006    0.0004    0.0003    0.0000    0.0008    0.0009    0.0004
PROBES  49 THRU  56        0.0003   -0.0005    0.0004    0.0004   -0.0006   -0.0023    0.0003    0.0031
PROBES  57 THRU  64       -0.0004    0.0025    0.0002    0.0006    0.0003    0.0003   -0.0009    0.0054
PROBES  65 THRU  72        0.0002   -0.0010    0.0004    0.0004    0.0026    0.0004    0.0006    0.0004
PROBES  73 THRU  80        0.0006    0.0002    0.0006    0.0003    0.0000    0.0010    0.0004    0.0005
PROBES  81 THRU  88        0.0004    0.0009   -0.0001   -0.0004    0.0007    0.0119    0.0137    0.0361
PROBES  89 THRU  96        0.0080    0.0099   -0.0002    0.0329    0.0707    0.0768    0.0671    0.0175
PROBES  97 THRU 104       -0.0006    0.0004    0.0001    0.0003   -0.0005    0.0005   -0.0012   -0.0001
PROBES 105 THRU 112        0.0004    0.0007   -0.0017    0.0003    0.0006    0.0003    0.0004    0.0003
PROBES 113 THRU 120        0.0002   -0.0006    0.0236    0.0281    0.0032    0.0001    0.0047   -0.0001
PROBES 121 THRU 126        0.0005    0.0000    0.0008    0.0002    0.0002    0.0074

   AXIAL POSITION # 14, AXIAL LOCATION = 14.00 INCHES, SALT OBSERVED =0.0032 G-SALT/LBM-WATER, SALT MISSED =0.0017 G-SALT/LBM-WATER

PROBES   1 THRU   8        0.0010   -0.0030   -0.0002    0.0015    0.0010    0.0004    0.0015    0.0013
PROBES   9 THRU  16        0.0006    0.0012    0.0014    0.0013    0.0008    0.0003    0.0005    0.0004
PROBES  17 THRU  24        0.0004    0.0005    0.0005    0.0004    0.0009    0.0008   -0.0011   -0.0013
PROBES  25 THRU  32        0.0007    0.0011   -0.0008   -0.0025    0.0012   -0.0033    0.0005    0.0006
PROBES  33 THRU  40       -0.0036    0.0014   -0.0044   -0.0060    0.0011    0.0002    0.0013    0.0013
PROBES  41 THRU  48        0.0004   -0.0025    0.0008    0.0013    0.0001    0.0011    0.0016    0.0008
PROBES  49 THRU  56        0.0005   -0.0037    0.0005    0.0009   -0.0024   -0.0090    0.0011    0.0052
PROBES  57 THRU  64        0.0016   -0.0022    0.0001    0.0012    0.0007    0.0003   -0.0041    0.0010
PROBES  65 THRU  72        0.0005   -0.0029    0.0011    0.0006    0.0002    0.0006    0.0014    0.0016
PROBES  73 THRU  80        0.0001    0.0005    0.0015    0.0004    0.0005   -0.0025    0.0007    0.0006
PROBES  81 THRU  88        0.0005    0.0002    0.0007   -0.0004    0.0005    0.0058    0.0099    0.0467
PROBES  89 THRU  96        0.0130    0.0199    0.0012    0.0066    0.0454    0.0900    0.1251    0.0539
PROBES  97 THRU 104       -0.0033    0.0005    0.0005    0.0002   -0.0038    0.0012   -0.0048   -0.0051
PROBES 105 THRU 112        0.0008    0.0011   -0.0035    0.0009    0.0013    0.0005    0.0006    0.0004
PROBES 113 THRU 120        0.0005    0.0007    0.0079    0.0321    0.0081    0.0001    0.0017   -0.0042
PROBES 121 THRU 126        0.0013    0.0001    0.0021    0.0004    0.0005    0.0078
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   AXIAL POSITION # 15, AXIAL LOCATION = 13.00 INCHES, SALT OBSERVED =0.0022 G-SALT/LBM-WATER, SALT MISSED =0.0027 G-SALT/LBM-WATER

PROBES   1 THRU   8        0.0010   -0.0030   -0.0002    0.0015    0.0007    0.0006    0.0018    0.0011
PROBES   9 THRU  16        0.0008    0.0008    0.0012    0.0010    0.0009    0.0003    0.0005    0.0004
PROBES  17 THRU  24        0.0004    0.0003    0.0005    0.0003    0.0007    0.0006   -0.0011   -0.0013
PROBES  25 THRU  32        0.0007    0.0011   -0.0008   -0.0030    0.0012   -0.0037    0.0006    0.0006
PROBES  33 THRU  40       -0.0036    0.0014   -0.0044   -0.0053    0.0010    0.0002    0.0013    0.0013
PROBES  41 THRU  48        0.0006   -0.0021    0.0011    0.0022    0.0002    0.0013    0.0026    0.0008
PROBES  49 THRU  56        0.0007   -0.0057    0.0006    0.0010   -0.0038   -0.0075    0.0014    0.0057
PROBES  57 THRU  64        0.0013   -0.0047    0.0002    0.0012    0.0009    0.0003   -0.0041   -0.0022
PROBES  65 THRU  72        0.0004   -0.0029    0.0011    0.0006    0.0004    0.0005    0.0011    0.0009
PROBES  73 THRU  80        0.0005    0.0004    0.0013    0.0004    0.0009   -0.0056    0.0010    0.0012
PROBES  81 THRU  88        0.0013   -0.0003    0.0008    0.0003    0.0007    0.0004    0.0013    0.0170
PROBES  89 THRU  96        0.0042    0.0186    0.0008   -0.0009    0.0159    0.0433    0.1059    0.0645
PROBES  97 THRU 104       -0.0016    0.0007    0.0005    0.0003   -0.0039    0.0017   -0.0053   -0.0061
PROBES 105 THRU 112        0.0008    0.0011   -0.0035    0.0009    0.0011    0.0005    0.0004    0.0005
PROBES 113 THRU 120        0.0005    0.0010   -0.0002    0.0284    0.0163    0.0002   -0.0006   -0.0047
PROBES 121 THRU 126        0.0017    0.0002    0.0021    0.0004    0.0005    0.0119

   AXIAL POSITION # 16, AXIAL LOCATION = 12.00 INCHES, SALT OBSERVED =0.0027 G-SALT/LBM-WATER, SALT MISSED =0.0022 G-SALT/LBM-WATER

PROBES   1 THRU   8        0.0010   -0.0025   -0.0001    0.0012    0.0009    0.0005    0.0013    0.0012
PROBES   9 THRU  16        0.0010    0.0008    0.0012    0.0013    0.0008    0.0005    0.0008    0.0005
PROBES  17 THRU  24        0.0003    0.0005    0.0005    0.0004    0.0008    0.0008   -0.0031   -0.0031
PROBES  25 THRU  32        0.0010    0.0012   -0.0020   -0.0034    0.0013   -0.0047    0.0006    0.0008
PROBES  33 THRU  40       -0.0036    0.0011   -0.0049   -0.0035    0.0012    0.0002    0.0014    0.0014
PROBES  41 THRU  48        0.0004   -0.0025    0.0009    0.0015    0.0001    0.0011    0.0018    0.0007
PROBES  49 THRU  56        0.0007   -0.0042    0.0006    0.0010   -0.0028   -0.0054    0.0009    0.0047
PROBES  57 THRU  64        0.0016   -0.0037    0.0001    0.0012    0.0007    0.0003   -0.0041   -0.0027
PROBES  65 THRU  72        0.0005   -0.0029    0.0011    0.0006    0.0003    0.0004    0.0012    0.0018
PROBES  73 THRU  80        0.0001    0.0003    0.0013    0.0004    0.0008   -0.0029    0.0010    0.0006
PROBES  81 THRU  88        0.0009   -0.0003    0.0009    0.0002    0.0007    0.0009    0.0034    0.0186
PROBES  89 THRU  96        0.0024    0.0071   -0.0003    0.0296    0.0916    0.0985    0.0921    0.0203
PROBES  97 THRU 104       -0.0016    0.0005    0.0005    0.0002   -0.0038    0.0015   -0.0053   -0.0056
PROBES 105 THRU 112        0.0007    0.0009   -0.0026    0.0009    0.0010    0.0004    0.0008    0.0004
PROBES 113 THRU 120        0.0005    0.0006    0.0176    0.0204    0.0003    0.0004    0.0013   -0.0037
PROBES 121 THRU 126        0.0009    0.0002    0.0017    0.0003    0.0005    0.0006

   AXIAL POSITION # 17, AXIAL LOCATION = 11.50 INCHES, SALT OBSERVED =0.0013 G-SALT/LBM-WATER, SALT MISSED =0.0036 G-SALT/LBM-WATER

PROBES   1 THRU   8        0.0009   -0.0021   -0.0002    0.0014    0.0009    0.0004    0.0013    0.0012
PROBES   9 THRU  16        0.0011    0.0011    0.0011    0.0009    0.0005    0.0004    0.0004    0.0004
PROBES  17 THRU  24        0.0004    0.0003    0.0006    0.0005    0.0007    0.0008   -0.0021   -0.0017
PROBES  25 THRU  32        0.0006    0.0008   -0.0012   -0.0025    0.0011   -0.0029    0.0008    0.0004
PROBES  33 THRU  40       -0.0027    0.0010   -0.0035   -0.0029    0.0012    0.0002    0.0012    0.0013
PROBES  41 THRU  48        0.0005   -0.0030    0.0007    0.0016    0.0000    0.0011    0.0016    0.0007
PROBES  49 THRU  56        0.0011   -0.0037    0.0008    0.0009   -0.0043   -0.0075    0.0009    0.0047
PROBES  57 THRU  64        0.0016   -0.0037    0.0001    0.0011    0.0006    0.0003   -0.0046    0.0003
PROBES  65 THRU  72        0.0006   -0.0019    0.0009    0.0006    0.0003    0.0004    0.0012    0.0014
PROBES  73 THRU  80        0.0001    0.0003    0.0013    0.0004    0.0009   -0.0038    0.0009    0.0007
PROBES  81 THRU  88        0.0006    0.0001    0.0011    0.0012    0.0007    0.0005    0.0014    0.0129
PROBES  89 THRU  96        0.0009    0.0018    0.0002   -0.0009    0.0164    0.0257    0.0406    0.0137
PROBES  97 THRU 104       -0.0033    0.0004    0.0005    0.0003   -0.0029    0.0014   -0.0043   -0.0056
PROBES 105 THRU 112        0.0008    0.0011   -0.0035    0.0009    0.0010    0.0004    0.0008    0.0004
PROBES 113 THRU 120        0.0006    0.0006    0.0207    0.0253    0.0004    0.0003   -0.0001   -0.0027
PROBES 121 THRU 126        0.0010    0.0002    0.0017    0.0003    0.0005    0.0004

   AXIAL POSITION # 18, AXIAL LOCATION = 11.00 INCHES, SALT OBSERVED =0.0031 G-SALT/LBM-WATER, SALT MISSED =0.0018 G-SALT/LBM-WATER
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PROBES   1 THRU   8      0.0011   -0.0034   -0.0002    0.0014    0.0012    0.0006    0.0017    0.0012
PROBES   9 THRU  16      0.0009    0.0012    0.0012    0.0010    0.0008    0.0003    0.0005    0.0004
PROBES  17 THRU  24      0.0003    0.0003    0.0005    0.0004    0.0007    0.0006   -0.0016   -0.0022
PROBES  25 THRU  32      0.0009    0.0011   -0.0008   -0.0021    0.0012   -0.0033    0.0005    0.0007
PROBES  33 THRU  40     -0.0046    0.0010   -0.0044   -0.0053    0.0010    0.0002    0.0013    0.0016
PROBES  41 THRU  48      0.0004   -0.0025    0.0009    0.0015    0.0001    0.0011    0.0018    0.0008
PROBES  49 THRU  56      0.0009   -0.0052    0.0007    0.0009   -0.0024   -0.0090    0.0010    0.0052
PROBES  57 THRU  64      0.0020   -0.0032    0.0001    0.0011    0.0007    0.0003   -0.0041   -0.0014
PROBES  65 THRU  72      0.0005   -0.0039    0.0011    0.0006    0.0004    0.0004    0.0016    0.0014
PROBES  73 THRU  80     -0.0000    0.0004    0.0011    0.0004    0.0008   -0.0029    0.0010    0.0007
PROBES  81 THRU  88      0.0009   -0.0002    0.0005    0.0006    0.0012    0.0048    0.0086    0.0347
PROBES  89 THRU  96      0.0029    0.0051   -0.0003    0.0252    0.0931    0.0909    0.0812    0.0155
PROBES  97 THRU 104     -0.0016    0.0005    0.0005    0.0002   -0.0020    0.0017   -0.0038   -0.0046
PROBES 105 THRU 112      0.0008    0.0009   -0.0026    0.0009    0.0010    0.0004    0.0008    0.0004
PROBES 113 THRU 120      0.0005    0.0003    0.0328    0.0287    0.0003    0.0004    0.0013   -0.0037
PROBES 121 THRU 126      0.0009    0.0003    0.0019    0.0004    0.0005    0.0006

   AXIAL POSITION # 19, AXIAL LOCATION = 10.50 INCHES, SALT OBSERVED =0.0022 G-SALT/LBM-WATER, SALT MISSED =0.0027 G-SALT/LBM-WATER

PROBES   1 THRU   8      0.0011   -0.0043   -0.0001    0.0014    0.0012    0.0004    0.0017    0.0016
PROBES   9 THRU  16      0.0006    0.0006    0.0016    0.0011    0.0006    0.0004    0.0006    0.0004
PROBES  17 THRU  24      0.0004    0.0003    0.0005    0.0003    0.0008    0.0006   -0.0026   -0.0022
PROBES  25 THRU  32      0.0005    0.0012   -0.0020   -0.0034    0.0011   -0.0047    0.0006    0.0007
PROBES  33 THRU  40     -0.0022    0.0013   -0.0049   -0.0074    0.0010    0.0002    0.0013    0.0016
PROBES  41 THRU  48      0.0006   -0.0025    0.0012    0.0026    0.0001    0.0015    0.0026    0.0008
PROBES  49 THRU  56      0.0008   -0.0047    0.0005    0.0008   -0.0028   -0.0061    0.0011    0.0055
PROBES  57 THRU  64      0.0013   -0.0042    0.0002    0.0014    0.0008    0.0003   -0.0046   -0.0001
PROBES  65 THRU  72      0.0008   -0.0050    0.0010    0.0008    0.0004    0.0005    0.0015    0.0011
PROBES  73 THRU  80     -0.0000    0.0005    0.0011    0.0004    0.0003   -0.0025    0.0007    0.0006
PROBES  81 THRU  88      0.0005    0.0016    0.0004   -0.0003    0.0011    0.0062    0.0190    0.0536
PROBES  89 THRU  96      0.0094    0.0115   -0.0003    0.0053    0.0400    0.0871    0.0939    0.0224
PROBES  97 THRU 104     -0.0033    0.0005    0.0003    0.0006   -0.0038    0.0012   -0.0048   -0.0041
PROBES 105 THRU 112      0.0007    0.0009   -0.0040    0.0010    0.0010    0.0004    0.0006    0.0004
PROBES 113 THRU 120      0.0004    0.0007    0.0012    0.0134    0.0006    0.0004    0.0004   -0.0032
PROBES 121 THRU 126      0.0012    0.0002    0.0023    0.0003    0.0004    0.0009

   AXIAL POSITION # 20, AXIAL LOCATION = 10.00 INCHES, SALT OBSERVED =0.0024 G-SALT/LBM-WATER, SALT MISSED =0.0025 G-SALT/LBM-WATER

PROBES   1 THRU   8      0.0011   -0.0039   -0.0002    0.0014    0.0010    0.0004    0.0017    0.0016
PROBES   9 THRU  16      0.0006    0.0006    0.0013    0.0011    0.0006    0.0003    0.0005    0.0007
PROBES  17 THRU  24      0.0004    0.0006    0.0005    0.0003    0.0007    0.0004   -0.0026   -0.0026
PROBES  25 THRU  32      0.0006    0.0010   -0.0016   -0.0017    0.0012   -0.0033    0.0006    0.0006
PROBES  33 THRU  40     -0.0041    0.0014   -0.0044   -0.0081    0.0012    0.0002    0.0016    0.0014
PROBES  41 THRU  48      0.0005   -0.0030    0.0039    0.0018    0.0001    0.0011    0.0018    0.0008
PROBES  49 THRU  56      0.0005   -0.0042    0.0006    0.0008   -0.0033   -0.0061    0.0010    0.0055
PROBES  57 THRU  64      0.0014   -0.0032    0.0001    0.0015    0.0009    0.0003   -0.0051   -0.0009
PROBES  65 THRU  72      0.0004   -0.0024    0.0010    0.0007    0.0003    0.0004    0.0017    0.0014
PROBES  73 THRU  80      0.0001    0.0004    0.0011    0.0004    0.0008   -0.0033    0.0009    0.0008
PROBES  81 THRU  88      0.0006   -0.0003    0.0008    0.0008    0.0005    0.0008    0.0035    0.0323
PROBES  89 THRU  96      0.0041    0.0099   -0.0003   -0.0006    0.0281    0.0812    0.1385    0.0446
PROBES  97 THRU 104     -0.0027    0.0005    0.0003    0.0004   -0.0029    0.0014   -0.0048   -0.0041
PROBES 105 THRU 112      0.0007    0.0007   -0.0031    0.0007    0.0010    0.0004    0.0006    0.0004
PROBES 113 THRU 120      0.0005    0.0007    0.0020    0.0247    0.0018    0.0004    0.0013   -0.0037
PROBES 121 THRU 126      0.0009    0.0005    0.0019    0.0003    0.0004    0.0024

   AXIAL POSITION # 21, AXIAL LOCATION =  9.50 INCHES, SALT OBSERVED =0.0029 G-SALT/LBM-WATER, SALT MISSED =0.0020 G-SALT/LBM-WATER

PROBES   1 THRU   8      0.0009   -0.0030   -0.0001    0.0014    0.0012    0.0004    0.0015    0.0011
PROBES   9 THRU  16      0.0008    0.0009    0.0011    0.0012    0.0007    0.0003    0.0005    0.0006
PROBES  17 THRU  24      0.0002    0.0004    0.0005    0.0003    0.0011    0.0005   -0.0026   -0.0013
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PROBES  25 THRU  32      0.0005    0.0009   -0.0016   -0.0017    0.0012   -0.0033    0.0004    0.0006
PROBES  33 THRU  40     -0.0041    0.0014   -0.0044   -0.0081    0.0012    0.0002    0.0016    0.0014
PROBES  41 THRU  48      0.0005   -0.0030    0.0010    0.0010    0.0000    0.0013    0.0020    0.0009
PROBES  49 THRU  56      0.0011   -0.0052    0.0006    0.0010   -0.0028   -0.0061    0.0010    0.0055
PROBES  57 THRU  64      0.0018   -0.0047    0.0002    0.0014    0.0008    0.0003   -0.0051   -0.0022
PROBES  65 THRU  72      0.0004   -0.0024    0.0010    0.0008    0.0005    0.0004    0.0015    0.0012
PROBES  73 THRU  80      0.0006    0.0004    0.0009    0.0004    0.0006   -0.0025    0.0010    0.0008
PROBES  81 THRU  88      0.0004    0.0012    0.0004   -0.0007    0.0010    0.0003    0.0010    0.0246
PROBES  89 THRU  96      0.0168    0.0434    0.0117   -0.0004    0.0144    0.0454    0.1406    0.1620
PROBES  97 THRU 104     -0.0022    0.0005    0.0003    0.0003   -0.0025    0.0015   -0.0058   -0.0051
PROBES 105 THRU 112      0.0008    0.0009   -0.0040    0.0008    0.0013    0.0007    0.0006    0.0004
PROBES 113 THRU 120      0.0005    0.0007   -0.0003    0.0272    0.0102    0.0001    0.0017   -0.0037
PROBES 121 THRU 126      0.0009    0.0001    0.0027    0.0003    0.0004    0.0043

   AXIAL POSITION # 22, AXIAL LOCATION =  9.00 INCHES, SALT OBSERVED =0.0028 G-SALT/LBM-WATER, SALT MISSED =0.0021 G-SALT/LBM-WATER

PROBES   1 THRU   8      0.0012   -0.0039   -0.0002    0.0011    0.0010    0.0004    0.0015    0.0011
PROBES   9 THRU  16      0.0007    0.0007    0.0014    0.0015    0.0007    0.0003    0.0005    0.0006
PROBES  17 THRU  24      0.0002    0.0003    0.0005    0.0003    0.0013    0.0006   -0.0011   -0.0013
PROBES  25 THRU  32      0.0005    0.0008   -0.0008   -0.0034    0.0012   -0.0033    0.0004    0.0006
PROBES  33 THRU  40     -0.0036    0.0014   -0.0044   -0.0067    0.0013    0.0003    0.0012    0.0014
PROBES  41 THRU  48      0.0004   -0.0030    0.0008    0.0011    0.0001    0.0013    0.0020    0.0009
PROBES  49 THRU  56      0.0011   -0.0052    0.0005    0.0007   -0.0024   -0.0097    0.0011    0.0052
PROBES  57 THRU  64      0.0022   -0.0047    0.0002    0.0007    0.0007    0.0003   -0.0051   -0.0022
PROBES  65 THRU  72      0.0004   -0.0019    0.0009    0.0005    0.0004    0.0004    0.0015    0.0011
PROBES  73 THRU  80      0.0008    0.0003    0.0009    0.0004    0.0010   -0.0038    0.0010    0.0009
PROBES  81 THRU  88      0.0010    0.0008    0.0009    0.0006    0.0007    0.0003    0.0003    0.0036
PROBES  89 THRU  96      0.0019    0.0162   -0.0003    0.0009    0.0129    0.0246    0.1963    0.0930
PROBES  97 THRU 104     -0.0027    0.0005    0.0003    0.0003   -0.0029    0.0014   -0.0048   -0.0051
PROBES 105 THRU 112      0.0007    0.0007   -0.0031    0.0007    0.0010    0.0003    0.0007    0.0004
PROBES 113 THRU 120      0.0005    0.0009   -0.0004    0.0415    0.0116    0.0001    0.0013   -0.0027
PROBES 121 THRU 126      0.0010    0.0000    0.0017    0.0003    0.0004    0.0064

   AXIAL POSITION # 23, AXIAL LOCATION =  8.50 INCHES, SALT OBSERVED =0.0022 G-SALT/LBM-WATER, SALT MISSED =0.0027 G-SALT/LBM-WATER

PROBES   1 THRU   8      0.0008   -0.0030   -0.0001    0.0015    0.0007    0.0006    0.0017    0.0012
PROBES   9 THRU  16      0.0011    0.0010    0.0011    0.0012    0.0007    0.0003    0.0005    0.0006
PROBES  17 THRU  24      0.0002    0.0003    0.0005    0.0003    0.0010    0.0005   -0.0031   -0.0017
PROBES  25 THRU  32      0.0007    0.0007   -0.0008   -0.0034    0.0012   -0.0033    0.0004    0.0006
PROBES  33 THRU  40     -0.0036    0.0014   -0.0044   -0.0067    0.0013    0.0002    0.0014    0.0014
PROBES  41 THRU  48      0.0004   -0.0030    0.0009    0.0016    0.0000    0.0011    0.0018    0.0006
PROBES  49 THRU  56      0.0008   -0.0042    0.0006    0.0008   -0.0033   -0.0048    0.0011    0.0055
PROBES  57 THRU  64      0.0018   -0.0047    0.0002    0.0011    0.0007    0.0003   -0.0041   -0.0041
PROBES  65 THRU  72      0.0008   -0.0050    0.0010    0.0007    0.0003    0.0004    0.0015    0.0012
PROBES  73 THRU  80      0.0007    0.0004    0.0011    0.0004    0.0010   -0.0038    0.0009    0.0007
PROBES  81 THRU  88      0.0009    0.0008    0.0009    0.0011    0.0007    0.0003    0.0003    0.0162
PROBES  89 THRU  96      0.0001    0.0018    0.0003   -0.0008    0.0294    0.0708    0.1573    0.0365
PROBES  97 THRU 104     -0.0045    0.0005    0.0003    0.0003   -0.0025    0.0014   -0.0048   -0.0046
PROBES 105 THRU 112      0.0008    0.0008   -0.0026    0.0007    0.0013    0.0006    0.0006    0.0004
PROBES 113 THRU 120      0.0004    0.0004    0.0025    0.0278    0.0003    0.0003    0.0004   -0.0032
PROBES 121 THRU 126      0.0013    0.0003    0.0023    0.0003    0.0004    0.0040

   AXIAL POSITION # 24, AXIAL LOCATION =  8.00 INCHES, SALT OBSERVED =0.0029 G-SALT/LBM-WATER, SALT MISSED =0.0020 G-SALT/LBM-WATER

PROBES   1 THRU   8      0.0008   -0.0030   -0.0001    0.0015    0.0007    0.0006    0.0017    0.0012
PROBES   9 THRU  16      0.0010    0.0007    0.0014    0.0015    0.0007    0.0003    0.0005    0.0005
PROBES  17 THRU  24      0.0003    0.0003    0.0005    0.0003    0.0010    0.0005   -0.0031   -0.0017
PROBES  25 THRU  32      0.0005    0.0009   -0.0016   -0.0013    0.0011   -0.0033    0.0004    0.0006
PROBES  33 THRU  40     -0.0036    0.0014   -0.0040   -0.0047    0.0011    0.0003    0.0011    0.0011
PROBES  41 THRU  48      0.0004   -0.0030    0.0008    0.0011    0.0001    0.0013    0.0020    0.0009
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PROBES  49 THRU  56        0.0009    -0.0052     0.0005     0.0007    -0.0024    -0.0097     0.0011     0.0055
PROBES  57 THRU  64        0.0016    -0.0042     0.0002     0.0011     0.0007     0.0003    -0.0036    -0.0027
PROBES  65 THRU  72        0.0004    -0.0024     0.0010     0.0007     0.0004     0.0004     0.0015     0.0011
PROBES  73 THRU  80        0.0004     0.0003     0.0009     0.0004     0.0008    -0.0029     0.0010     0.0008
PROBES  81 THRU  88        0.0007    -0.0003     0.0009     0.0002     0.0007     0.0004     0.0031     0.0411
PROBES  89 THRU  96        0.0033     0.0059    -0.0002    -0.0003     0.0454     0.1143     0.1834     0.0333
PROBES  97 THRU 104       -0.0027     0.0005     0.0003     0.0005    -0.0020     0.0017    -0.0038    -0.0046
PROBES 105 THRU 112        0.0008     0.0009    -0.0040     0.0008     0.0013     0.0006     0.0006     0.0004
PROBES 113 THRU 120        0.0004     0.0007     0.0049     0.0169     0.0003     0.0006     0.0004    -0.0032
PROBES 121 THRU 126        0.0013     0.0002     0.0019     0.0003     0.0004     0.0002

    AXIAL POSITION # 25, AXIAL LOCATION =  7.50 INCHES, SALT OBSERVED =0.0028 G-SALT/LBM-WATER, SALT MISSED =0.0021 G-SALT/LBM-WATER

PROBES   1 THRU   8        0.0010    -0.0039    -0.0002     0.0012     0.0009     0.0005     0.0013     0.0010
PROBES   9 THRU  16        0.0007     0.0007     0.0014     0.0015     0.0007     0.0003     0.0005     0.0006
PROBES  17 THRU  24        0.0002     0.0004     0.0005     0.0003     0.0012     0.0006    -0.0021    -0.0017
PROBES  25 THRU  32        0.0007     0.0007    -0.0008    -0.0034     0.0012    -0.0033     0.0004     0.0006
PROBES  33 THRU  40       -0.0036     0.0014    -0.0040    -0.0047     0.0011     0.0003     0.0011     0.0011
PROBES  41 THRU  48        0.0004    -0.0030     0.0009     0.0016     0.0000     0.0011     0.0018     0.0006
PROBES  49 THRU  56        0.0008    -0.0042     0.0006     0.0008    -0.0033    -0.0048     0.0011     0.0052
PROBES  57 THRU  64        0.0022    -0.0037     0.0002     0.0011     0.0007     0.0003    -0.0036    -0.0027
PROBES  65 THRU  72        0.0004    -0.0024     0.0010     0.0007     0.0003     0.0005     0.0013     0.0012
PROBES  73 THRU  80        0.0006     0.0004     0.0010     0.0004     0.0007    -0.0038     0.0009     0.0007
PROBES  81 THRU  88        0.0009     0.0005     0.0011     0.0012     0.0008     0.0003     0.0004     0.0159
PROBES  89 THRU  96        0.0001     0.0006     0.0006     0.0005     0.0472     0.1233     0.1470     0.0265
PROBES  97 THRU 104       -0.0027     0.0005     0.0003     0.0003    -0.0025     0.0014    -0.0048    -0.0046
PROBES 105 THRU 112        0.0008     0.0007    -0.0026     0.0007     0.0013     0.0006     0.0006     0.0004
PROBES 113 THRU 120        0.0004     0.0006     0.0255     0.0174     0.0003     0.0002     0.0013    -0.0037
PROBES 121 THRU 126        0.0009     0.0002     0.0021     0.0004     0.0004     0.0001

    AXIAL POSITION # 26, AXIAL LOCATION =  7.00 INCHES, SALT OBSERVED =0.0163 G-SALT/LBM-WATER, SALT MISSED =-.0114 G-SALT/LBM-WATER

PROBES   1 THRU   8        0.0009    -0.0030    -0.0001     0.0015     0.0007     0.0006     0.0017     0.0013
PROBES   9 THRU  16        0.0009     0.0012     0.0012     0.0011     0.0005     0.0006     0.0010     0.0004
PROBES  17 THRU  24        0.0003     0.0003     0.0005     0.0003     0.0012     0.0006    -0.0021    -0.0026
PROBES  25 THRU  32        0.0005     0.0009    -0.0016    -0.0013     0.0012    -0.0033     0.0004     0.0006
PROBES  33 THRU  40       -0.0036     0.0014    -0.0044    -0.0067     0.0010     0.0002     0.0012     0.0014
PROBES  41 THRU  48        0.0005    -0.0030     0.0010     0.0008     0.0001     0.0015     0.0024     0.0009
PROBES  49 THRU  56        0.0007    -0.0052     0.0006     0.0010    -0.0024    -0.0097     0.0011     0.0055
PROBES  57 THRU  64        0.0018    -0.0047     0.0002     0.0014     0.0008     0.0003    -0.0051    -0.0022
PROBES  65 THRU  72        0.0004    -0.0024     0.0010     0.0007     0.0002     0.0005     0.0014     0.0009
PROBES  73 THRU  80        0.0008     0.0005     0.0009     0.0004     0.0010    -0.0038     0.0009     0.0007
PROBES  81 THRU  88        0.0009     0.0008     0.0008     0.0012     0.0012     0.0003     0.0009     0.0341
PROBES  89 THRU  96        0.0033     0.0003     0.0218     0.0702     0.1077     0.1183     0.0041     2.1211
PROBES  97 THRU 104       -0.0039     0.0005     0.0003     0.0006    -0.0025     0.0014    -0.0048    -0.0036
PROBES 105 THRU 112        0.0007     0.0007    -0.0031     0.0007     0.0010     0.0004     0.0006     0.0004
PROBES 113 THRU 120        0.0005     0.0006     0.0252     0.0142     0.0003     0.0004     0.0013    -0.0037
PROBES 121 THRU 126        0.0009     0.0003     0.0023     0.0003     0.0004    -0.0004

    AXIAL POSITION # 27, AXIAL LOCATION =  6.50 INCHES, SALT OBSERVED =0.0023 G-SALT/LBM-WATER, SALT MISSED =0.0026 G-SALT/LBM-WATER

PROBES   1 THRU   8        0.0008    -0.0030    -0.0001     0.0015     0.0005     0.0004     0.0013     0.0009
PROBES   9 THRU  16        0.0007     0.0010     0.0010     0.0012     0.0005     0.0003     0.0003     0.0004
PROBES  17 THRU  24        0.0003     0.0002     0.0004     0.0003     0.0010     0.0005    -0.0016    -0.0009
PROBES  25 THRU  32        0.0008     0.0008    -0.0005    -0.0025     0.0012    -0.0024     0.0009     0.0005
PROBES  33 THRU  40       -0.0005     0.0007    -0.0026    -0.0035     0.0011     0.0003     0.0010     0.0011
PROBES  41 THRU  48        0.0003    -0.0025     0.0007     0.0018     0.0001     0.0009     0.0010     0.0006
PROBES  49 THRU  56        0.0009    -0.0032     0.0005     0.0007    -0.0038    -0.0048     0.0009     0.0044
PROBES  57 THRU  64        0.0014    -0.0037     0.0001     0.0009     0.0005     0.0003    -0.0036    -0.0014
PROBES  65 THRU  72        0.0003    -0.0029     0.0009     0.0005     0.0004     0.0004     0.0013     0.0011
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PROBES  73 THRU  80       0.0005    0.0003    0.0013    0.0004    0.0008   -0.0016    0.0007    0.0005
PROBES  81 THRU  88       0.0012    0.0009    0.0003    0.0004    0.0006    0.0003    0.0009    0.0295
PROBES  89 THRU  96       0.0001    0.0012    0.0003   -0.0009    0.0247    0.0969    0.1561    0.0248
PROBES  97 THRU 104      -0.0027    0.0004    0.0003    0.0003   -0.0038    0.0011   -0.0029   -0.0031
PROBES 105 THRU 112       0.0005    0.0009   -0.0040    0.0008    0.0010    0.0005    0.0005    0.0004
PROBES 113 THRU 120       0.0004    0.0004    0.0018    0.0160    0.0003    0.0004    0.0021   -0.0018
PROBES 121 THRU 126   .   0.0013    0.0003    0.0015    0.0003    0.0004   -0.0002

   AXIAL POSITION # 28, AXIAL LOCATION =  6.00 INCHES, SALT OBSERVED =0.0024 G-SALT/LBM-WATER, SALT MISSED =0.0025 G-SALT/LBM-WATER

PROBES   1 THRU   8       0.0010   -0.0034   -0.0001    0.0011    0.0009    0.0005    0.0013    0.0012
PROBES   9 THRU  16       0.0010    0.0007    0.0014    0.0015    0.0007    0.0003    0.0005    0.0006
PROBES  17 THRU  24       0.0002    0.0002    0.0005    0.0003    0.0011    0.0005   -0.0031   -0.0017
PROBES  25 THRU  32       0.0005    0.0009   -0.0012   -0.0013    0.0011   -0.0033    0.0004    0.0006
PROBES  33 THRU  40      -0.0051    0.0009   -0.0035   -0.0035    0.0011    0.0003    0.0011    0.0011
PROBES  41 THRU  48       0.0004   -0.0025    0.0009    0.0016    0.0000    0.0011    0.0016    0.0006
PROBES  49 THRU  56       0.0008   -0.0042    0.0006    0.0007   -0.0024   -0.0082    0.0009    0.0049
PROBES  57 THRU  64       0.0024   -0.0037    0.0002    0.0010    0.0007    0.0003   -0.0036   -0.0031
PROBES  65 THRU  72       0.0006   -0.0015    0.0009    0.0005    0.0004    0.0004    0.0013    0.0009
PROBES  73 THRU  80       0.0009    0.0004    0.0010    0.0004    0.0007   -0.0033    0.0008    0.0007
PROBES  81 THRU  88       0.0009    0.0009    0.0007    0.0011    0.0007    0.0003    0.0003    0.0129
PROBES  89 THRU  96       0.0001    0.0010    0.0003    0.0005    0.0144    0.0717    0.2113    0.0333
PROBES  97 THRU 104      -0.0006    0.0005  . 0.0003    0.0003   -0.0025    0.0014   -0.0048   -0.0046
PROBES 105 THRU 112.      0.0008    0.0007   -0.0026    0.0007    0.0013    0.0006    0.0006    0.0004
PROBES 113 THRU 120       0.0004    0.0007   -0.0002    0.0193    0.0003    0.0004    0.0008   -0.0023
PROBES 121 THRU 126       0.0010    0.0004    0.0019    0.0003    0.0003    0.0009

   AXIAL POSITION # 29, AXIAL LOCATION =  5.75 INCHES, SALT OBSERVED =0.0025 G-SALT/LBM-WATER, SALT MISSED =0.0024 G-SALT/LBM-WATER

PROBES   1 THRU   8       0.0011   -0.0043   -0.0001    0.0015    0.0016    0.0006    0.0017    0.0012
PROBES   9 THRU  16       0.0011    0.0010    0.0014    0.0015    0.0007    0.0003    0.0005    0.0006
PROBES  17 THRU  24       0.0002    0.0002    0.0005    0.0008    0.0007    0.0006   -0.0026   -0.0013
PROBES  25 THRU  32       0.0004    0.0009   -0.0012   -0.0039    0.0009   -0.0037    0.0005    0.0007
PROBES  33 THRU  40      -0.0031    0.0009   -0.0030   -0.0041    0.0011    0.0003    0.0011    0.0014
PROBES  41 THRU  48       0.0004   -0.0017    0.0008    0.0007    0.0002    0.0011    0.0018    0.0006
PROBES  49 THRU  56       0.0009   -0.0047    0.0006    0.0007   -0.0019   -0.0090    0.0010    0.0052
PROBES  57 THRU  64       0.0020   -0.0032    0.0001    0.0014    0.0006    0.0003   -0.0041   -0.0041
PROBES  65 THRU  72       0.0008   -0.0045    0.0011    0.0007    0.0004    0.0004    0.0013    0.0009
PROBES  73 THRU  80       0.0008    0.0004    0.0008    0.0004    0.0007   -0.0025    0.0009    0.0008
PROBES  81 THRU  88       0.0014    0.0009    0.0007    0.0014    0.0009    0.0003    0.0004    0.0034
PROBES  89 THRU  96       0.0002    0.0030    0.0003    0.0009    0.0119    0.0310    0.2476    0.0535
PROBES  97 THRU 104      -0.0027    0.0005    0.0003    0.0003   -0.0038    0.0015   -0.0043   -0.0051
PROBES 105 THRU 112       0.0007    0.0010   -0.0017    0.0009    0.0014    0.0006    0.0006    0.0003
PROBES 113 THRU 120       0.0004    0.0007   -0.0004    0.0247    0.0003    0.0004    0.0017   -0.0018
PROBES 121 THRU 126       0.0016    0.0003    0.0021    0.0004    0.0004    0.0011

   AXIAL POSITION # 30, AXIAL LOCATION =  5.50 INCHES, SALT OBSERVED =0.0023 G-SALT/LBM-WATER, SALT MISSED =0.0026 G-SALT/LBM-WATER

PROBES   1 THRU   8       0.0009   -0.0034   -0.0001    0.0010    0.0016    0.0005    0.0013    0.0012
PROBES   9 THRU  16       0.0010    0.0005    0.0012    0.0015    0.0005    0.0005    0.0005    0.0007
PROBES  17 THRU  24       0.0002    0.0002    0.0004    0.0004    0.0005    0.0006   -0.0026   -0.0013
PROBES  25 THRU  32       0.0004    0.0009   -0.0012   -0.0039    0.0011   -0.0047    0.0008    0.0004
PROBES  33 THRU  40      -0.0018    0.0010   -0.0049   -0.0067    0.0011    0.0003    0.0013    0.0011
PROBES  41 THRU  48       0.0004   -0.0021    0.0008    0.0007    0.0001    0.0012    0.0018    0.0007
PROBES  49 THRU  56       0.0007   -0.0042    0.0005    0.0009   -0.0043   -0.0097    0.0008    0.0049
PROBES  57 THRU  64       0.0020   -0.0032    0.0002    0.0014    0.0006    0.0003   -0.0036   -0.0027
PROBES  65 THRU  72       0.0003   -0.0034    0.0010    0.0008    0.0004    0.0004    0.0012    0.0008
PROBES  73 THRU  80       0.0009    0.0004    0.0007    0.0004    0.0008   -0.0025    0.0009    0.0007
PROBES  81 THRU  88       0.0014    0.0008    0.0009    0.0011    0.0008    0.0003    0.0005    0.0005
PROBES  89 THRU  96       0.0004    0.0038    0.0003    0.0018    0.0064    0.0162    0.2361    0.0700
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PROBES  97 THRU 104      -0.0022    0.0005    0.0002    0.0004   -0.0020    0.0012   -0.0034   -0.0036
PROBES 105 THRU 112       0.0007    0.0010   -0.0017    0.0007    0.0010    0.0003    0.0004    0.0004
PROBES 113 THRU 120       0.0005    0.0004   -0.0001    0.0191    0.0003    0.0003    0.0017   -0.0019
PROBES 121 THRU 126       0.0013    0.0001    0.0021    0.0004    0.0003    0.0005

  AXIAL POSITION # 31, AXIAL LOCATION =  5.25 INCHES, SALT OBSERVED =0.0028 G-SALT/LBM-WATER, SALT MISSED =0.0021 G-SALT/LBM-WATER

PROBES   1 THRU   8       0.0009   -0.0034   -0.0001    0.0011    0.0009    0.0005    0.0013    0.0012
PROBES   9 THRU  16       0.0011    0.0011    0.0012    0.0015    0.0008    0.0003    0.0005    0.0006
PROBES  17 THRU  24       0.0002    0.0004    0.0005    0.0003    0.0011    0.0005   -0.0031   -0.0017
PROBES  25 THRU  32       0.0005    0.0009   -0.0012   -0.0039    0.0009   -0.0042    0.0007    0.0006
PROBES  33 THRU  40      -0.0051    0.0009   -0.0030   -0.0035    0.0011    0.0003    0.0011    0.0014
PROBES  41 THRU  48       0.0004   -0.0021    0.0008    0.0010    0.0001    0.0011    0.0016    0.0007
PROBES  49 THRU  56       0.0008   -0.0042    0.0006    0.0008   -0.0033   -0.0048    0.0011    0.0052
PROBES  57 THRU  64       0.0022   -0.0037    0.0002    0.0010    0.0008    0.0003   -0.0051   -0.0014
PROBES  65 THRU  72       0.0003   -0.0045    0.0011    0.0008    0.0004    0.0004    0.0015    0.0011
PROBES  73 THRU  80       0.0007    0.0005    0.0008    0.0004    0.0009   -0.0042    0.0009    0.0008
PROBES  81 THRU  88       0.0009    0.0012    0.0011    0.0017    0.0011    0.0003    0.0005    0.0001
PROBES  89 THRU  96       0.0007    0.0002    0.0014    0.0022    0.0087    0.0162    0.3148    0.0263
PROBES  97 THRU 104      -0.0016    0.0006    0.0004    0.0005   -0.0012    0.0017   -0.0043   -0.0041
PROBES 105 THRU 112       0.0008    0.0007   -0.0031    0.0007    0.0013    0.0006    0.0006    0.0004
PROBES 113 THRU 120       0.0006    0.0004   -0.0000    0.0124    0.0004    0.0006    0.0004   -0.0032
PROBES 121 THRU 126       0.0013    0.0002    0.0019    0.0003    0.0003    0.0035

  AXIAL POSITION # 32, AXIAL LOCATION =  5.00 INCHES, SALT OBSERVED =0.0024 G-SALT/LBM-WATER, SALT MISSED =0.0025 G-SALT/LBM-WATER

PROBES   1 THRU   8       0.0009   -0.0034   -0.0001    0.0010    0.0016    0.0005    0.0011    0.0013
PROBES   9 THRU  16       0.0012    0.0012    0.0012    0.0013    0.0005    0.0005    0.0004    0.0004
PROBES  17 THRU  24       0.0002    0.0002    0.0004    0.0003    0.0011    0.0003   -0.0021   -0.0017
PROBES  25 THRU  32       0.0005    0.0009   -0.0005   -0.0017    0.0009   -0.0037    0.0004    0.0005
PROBES  33 THRU  40      -0.0027    0.0010   -0.0035   -0.0023    0.0008    0.0002    0.0013    0.0014
PROBES  41 THRU  48       0.0004   -0.0021    0.0008    0.0010    0.0001    0.0013    0.0016    0.0007
PROBES  49 THRU  56       0.0008   -0.0042    0.0006    0.0007   -0.0024   -0.0082    0.0009    0.0055
PROBES  57 THRU  64       0.0024   -0.0037    0.0002    0.0011    0.0008    0.0003   -0.0051   -0.0022
PROBES  65 THRU  72       0.0003   -0.0045    0.0011    0.0008    0.0004    0.0004    0.0015    0.0011
PROBES  73 THRU  80       0.0007    0.0005    0.0008    0.0004    0.0007   -0.0033    0.0007    0.0006
PROBES  81 THRU  88       0.0014    0.0014    0.0010    0.0017    0.0008    0.0003    0.0006    0.0003
PROBES  89 THRU  96       0.0007    0.0006    0.0009    0.0022    0.0046    0.0140    0.2619    0.0309
PROBES  97 THRU 104      -0.0022    0.0005    0.0003    0.0006   -0.0033    0.0007   -0.0048   -0.0046
PROBES 105 THRU 112       0.0009    0.0009   -0.0040    0.0007    0.0013    0.0006    0.0006    0.0004
PROBES 113 THRU 120       0.0006    0.0004    0.0005    0.0312    0.0003    0.0006    0.0004   -0.0032
PROBES 121 THRU 126       0.0013    0.0002    0.0027    0.0003    0.0004    0.0021

  AXIAL POSITION # 33, AXIAL LOCATION =  4.75 INCHES, SALT OBSERVED =0.0022 G-SALT/LBM-WATER, SALT MISSED =0.0027 G-SALT/LBM-WATER

PROBES   1 THRU   8       0.0010   -0.0039   -0.0002    0.0011    0.0009    0.0005    0.0007    0.0013
PROBES   9 THRU  16       0.0009    0.0013    0.0011    0.0012    0.0008    0.0005    0.0004    0.0005
PROBES  17 THRU  24       0.0003    0.0003    0.0005    0.0003    0.0012    0.0006   -0.0016   -0.0026
PROBES  25 THRU  32       0.0005    0.0009   -0.0016   -0.0013    0.0012   -0.0033    0.0004    0.0006
PROBES  33 THRU  40      -0.0041    0.0014   -0.0044   -0.0067    0.0014    0.0003    0.0013    0.0016
PROBES  41 THRU  48       0.0005   -0.0030    0.0010    0.0008    0.0002    0.0015    0.0024    0.0010
PROBES  49 THRU  56       0.0007   -0.0052    0.0006    0.0010   -0.0028   -0.0061    0.0010    0.0055
PROBES  57 THRU  64       0.0020   -0.0047    0.0002    0.0014    0.0009    0.0003   -0.0046   -0.0022
PROBES  65 THRU  72       0.0004   -0.0024    0.0010    0.0008    0.0005    0.0005    0.0014    0.0009
PROBES  73 THRU  80       0.0011    0.0005    0.0009    0.0004    0.0010   -0.0047    0.0010    0.0009
PROBES  81 THRU  88       0.0012    0.0015    0.0013    0.0021    0.0010    0.0003    0.0007    0.0003
PROBES  89 THRU  96       0.0006    0.0009    0.0009    0.0018    0.0127    0.0266    0.2457    0.0137
PROBES  97 THRU 104      -0.0033    0.0006    0.0004    0.0008   -0.0029    0.0006   -0.0038   -0.0046
PROBES 105 THRU 112       0.0009    0.0012   -0.0026    0.0008    0.0013    0.0008    0.0009    0.0004
PROBES 113 THRU 120       0.0005    0.0006   -0.0005    0.0292    0.0003    0.0004   -0.0001   -0.0027
```

```
PROBES 121 THRU 126        0.0012     0.0003     0.0025     0.0003     0.0004     0.0016

   AXIAL POSITION # 34, AXIAL LOCATION =  4.50 INCHES, SALT OBSERVED =0.0015 G-SALT/LBM-WATER, SALT MISSED =0.0034 G-SALT/LBM-WATER

PROBES   1 THRU   8        0.0009    -0.0034    -0.0002     0.0012     0.0010     0.0005     0.0017     0.0013
PROBES   9 THRU  16        0.0010     0.0008     0.0016     0.0013     0.0007     0.0005     0.0006     0.0034
PROBES  17 THRU  24        0.0003     0.0003     0.0005     0.0003     0.0012     0.0007    -0.0021    -0.0026
PROBES  25 THRU  32        0.0006     0.0010    -0.0020    -0.0025     0.0010    -0.0042     0.0010     0.0007
PROBES  33 THRU  40       -0.0018     0.0013    -0.0044    -0.0074     0.0012     0.0002     0.0016     0.0014
PROBES  41 THRU  48        0.0005    -0.0030     0.0010     0.0008     0.0001     0.0015     0.0024     0.0010
PROBES  49 THRU  56        0.0008    -0.0057     0.0008     0.0012    -0.0065    -0.0105     0.0013     0.0057
PROBES  57 THRU  64        0.0024    -0.0052     0.0002     0.0012     0.0010     0.0004    -0.0046    -0.0027
PROBES  65 THRU  72        0.0005    -0.0034     0.0012     0.0005     0.0004     0.0005     0.0016     0.0022
PROBES  73 THRU  80        0.0009     0.0004     0.0011     0.0004     0.0010    -0.0047     0.0010     0.0009
PROBES  81 THRU  88        0.0012     0.0015     0.0010     0.0017     0.0011     0.0003     0.0007     0.0000
PROBES  89 THRU  96        0.0008     0.0007     0.0010     0.0016     0.0176     0.0524     0.1448     0.0069
PROBES  97 THRU 104       -0.0045     0.0006     0.0004     0.0009    -0.0029     0.0006    -0.0043    -0.0051
PROBES 105 THRU 112        0.0009     0.0012    -0.0026     0.0009     0.0013     0.0008     0.0009     0.0004
PROBES 113 THRU 120        0.0005     0.0009     0.0003     0.0155     0.0005     0.0004     0.0004    -0.0037
PROBES 121 THRU 126        0.0009     0.0007     0.0029     0.0004     0.0005     0.0002

   AXIAL POSITION # 35, AXIAL LOCATION =  4.25 INCHES, SALT OBSERVED =0.0009 G-SALT/LBM-WATER, SALT MISSED =0.0040 G-SALT/LBM-WATER

PROBES   1 THRU   8        0.0011    -0.0043    -0.0002     0.0014     0.0012     0.0005     0.0008     0.0012
PROBES   9 THRU  16        0.0014     0.0014     0.0016     0.0012     0.0008     0.0005     0.0006     0.0005
PROBES  17 THRU  24        0.0002     0.0004     0.0005     0.0004     0.0007     0.0009    -0.0042    -0.0035
PROBES  25 THRU  32        0.0012     0.0012    -0.0020    -0.0034     0.0011    -0.0047     0.0006     0.0008
PROBES  33 THRU  40       -0.0027     0.0015    -0.0049    -0.0074     0.0011     0.0002     0.0014     0.0016
PROBES  41 THRU  48        0.0006    -0.0025     0.0012     0.0022     0.0001     0.0014     0.0026     0.0009
PROBES  49 THRU  56        0.0011    -0.0057     0.0008     0.0009    -0.0028    -0.0068     0.0011     0.0060
PROBES  57 THRU  64        0.0014    -0.0052     0.0002     0.0009     0.0008     0.0003    -0.0041    -0.0022
PROBES  65 THRU  72        0.0004    -0.0029     0.0014     0.0006     0.0005     0.0005     0.0019     0.0020
PROBES  73 THRU  80        0.0011     0.0004     0.0009     0.0004     0.0010    -0.0047     0.0010     0.0010
PROBES  81 THRU  88        0.0018     0.0015     0.0010     0.0015     0.0011     0.0003     0.0006     0.0023
PROBES  89 THRU  96        0.0010     0.0003     0.0013     0.0005     0.0170     0.1006     0.0445     0.0085
PROBES  97 THRU 104       -0.0045     0.0006     0.0004     0.0009    -0.0033     0.0009    -0.0043    -0.0051
PROBES 105 THRU 112        0.0009     0.0012    -0.0026     0.0008     0.0014     0.0006     0.0006     0.0004
PROBES 113 THRU 120        0.0005     0.0006     0.0007    -0.0003     0.0005     0.0004     0.0013    -0.0037
PROBES 121 THRU 126        0.0009     0.0006     0.0029     0.0004     0.0004    -0.0008

   AXIAL POSITION # 36, AXIAL LOCATION =  4.00 INCHES, SALT OBSERVED =0.0008 G-SALT/LBM-WATER, SALT MISSED =0.0041 G-SALT/LBM-WATER

PROBES   1 THRU   8        0.0008    -0.0034    -0.0002     0.0011     0.0010     0.0004     0.0015     0.0011
PROBES   9 THRU  16        0.0008     0.0010     0.0011     0.0013     0.0007     0.0005     0.0006     0.0034
PROBES  17 THRU  24        0.0003     0.0003     0.0005     0.0003     0.0008     0.0005    -0.0042    -0.0035
PROBES  25 THRU  32        0.0012     0.0012    -0.0016    -0.0025     0.0012    -0.0042     0.0010     0.0007
PROBES  33 THRU  40       -0.0018     0.0013    -0.0044    -0.0088     0.0012     0.0002     0.0012     0.0016
PROBES  41 THRU  48        0.0006    -0.0039     0.0012     0.0020     0.0000     0.0014     0.0026     0.0008
PROBES  49 THRU  56        0.0013    -0.0063     0.0006     0.0010    -0.0028    -0.0068     0.0011     0.0057
PROBES  57 THRU  64        0.0024    -0.0052     0.0002     0.0009     0.0008     0.0003    -0.0041    -0.0018
PROBES  65 THRU  72        0.0005    -0.0019     0.0013     0.0006     0.0005     0.0005     0.0019     0.0020
PROBES  73 THRU  80        0.0011     0.0004     0.0009     0.0004     0.0010    -0.0042     0.0009     0.0010
PROBES  81 THRU  88        0.0010     0.0012     0.0010     0.0017     0.0010     0.0003     0.0005     0.0091
PROBES  89 THRU  96        0.0009     0.0007     0.0009     0.0009     0.0183     0.1074     0.0109     0.0052
PROBES  97 THRU 104       -0.0045     0.0007     0.0005     0.0006    -0.0020     0.0015    -0.0048    -0.0051
PROBES 105 THRU 112        0.0009     0.0011    -0.0045     0.0009     0.0015     0.0007     0.0008     0.0004
PROBES 113 THRU 120        0.0005     0.0007     0.0029    -0.0013     0.0008     0.0004    -0.0001    -0.0027
PROBES 121 THRU 126        0.0012     0.0006     0.0027     0.0005     0.0005    -0.0007

   AXIAL POSITION # 37, AXIAL LOCATION =  3.75 INCHES, SALT OBSERVED =0.0715 G-SALT/LBM-WATER, SALT MISSED =-.0666 G-SALT/LBM-WATER
```

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PROBES   1 THRU   8        0.0012   -0.0043   -0.0002    0.0014    0.0015    0.0006    0.0009    0.0012
PROBES   9 THRU  16        0.0014    0.0014    0.0017    0.0012    0.0008    0.0005    0.0005    0.0005
PROBES  17 THRU  24        0.0003    0.0003    0.0005    0.0004    0.0012    0.0007   -0.0037   -0.0035
PROBES  25 THRU  32        0.0009    0.0011   -0.0025   -0.0030    0.0016   -0.0047    0.0006    0.0008
PROBES  33 THRU  40       -0.0031    0.0014   -0.0059   -0.0047    0.0014    0.0003    0.0016    0.0017
PROBES  41 THRU  48        0.0010   -0.0034    0.0010    0.0013    0.0001    0.0015    0.0020    0.0009
PROBES  49 THRU  56        0.0011   -0.0057    0.0008    0.0008   -0.0043   -0.0061    0.0014    0.0060
PROBES  57 THRU  64        0.0016   -0.0057    0.0002    0.0009    0.0010    0.0003   -0.0051   -0.0022
PROBES  65 THRU  72        0.0005   -0.0029    0.0012    0.0006    0.0004    0.0005    0.0015    0.0014
PROBES  73 THRU  80        0.0006    0.0002    0.0014    0.0005    0.0014   -0.0025    0.0010    0.0012
PROBES  81 THRU  88        0.0021    0.0055    0.0030   -0.0000    0.0142    0.1278    0.0123    0.0020
PROBES  89 THRU  96        0.0041    0.0038   -0.0000    0.0494   -0.0113    0.0035    0.0038   -0.0128
PROBES  97 THRU 104       -0.0171    0.0004    0.0047    0.0004   -0.0068    0.0050   -0.0294   -0.0158
PROBES 105 THRU 112        0.0010    0.0003    0.0123    0.0003    0.0014    0.0002    0.0026    0.0009
PROBES 113 THRU 120        0.0011    0.0014    0.0127    0.0085    0.0036    0.0007    1.8975    1.6321
PROBES 121 THRU 126        1.0706    0.9474    1.1618    0.9846    1.0226    1.0734


**THE FOLLOWING PROBES HAVE FAILED AND WERE NOT
  INCLUDED IN THE MASS BALANCE CALCULATIONS:



**AXIAL CONCENTRATION PROFILES PLOTTED FOR THE FOLLOWING SUBCHANNELS:
          85          86          87          88
          89          90          91          92
          93          94          95          96
         115         116         117         118
```

Appendix 6

HEATED ROD SPECIFICATIONS

A letter follows which was sent to Watlow Electric Manufacturing Company requesting a cost estimate for heated rods with the given specifications. The specifications are based on suggestions by E. U. Khan.

Room 5-308
Massachusetts Institute
of Technology
Cambridge, Mass 02139
8 October, 1974

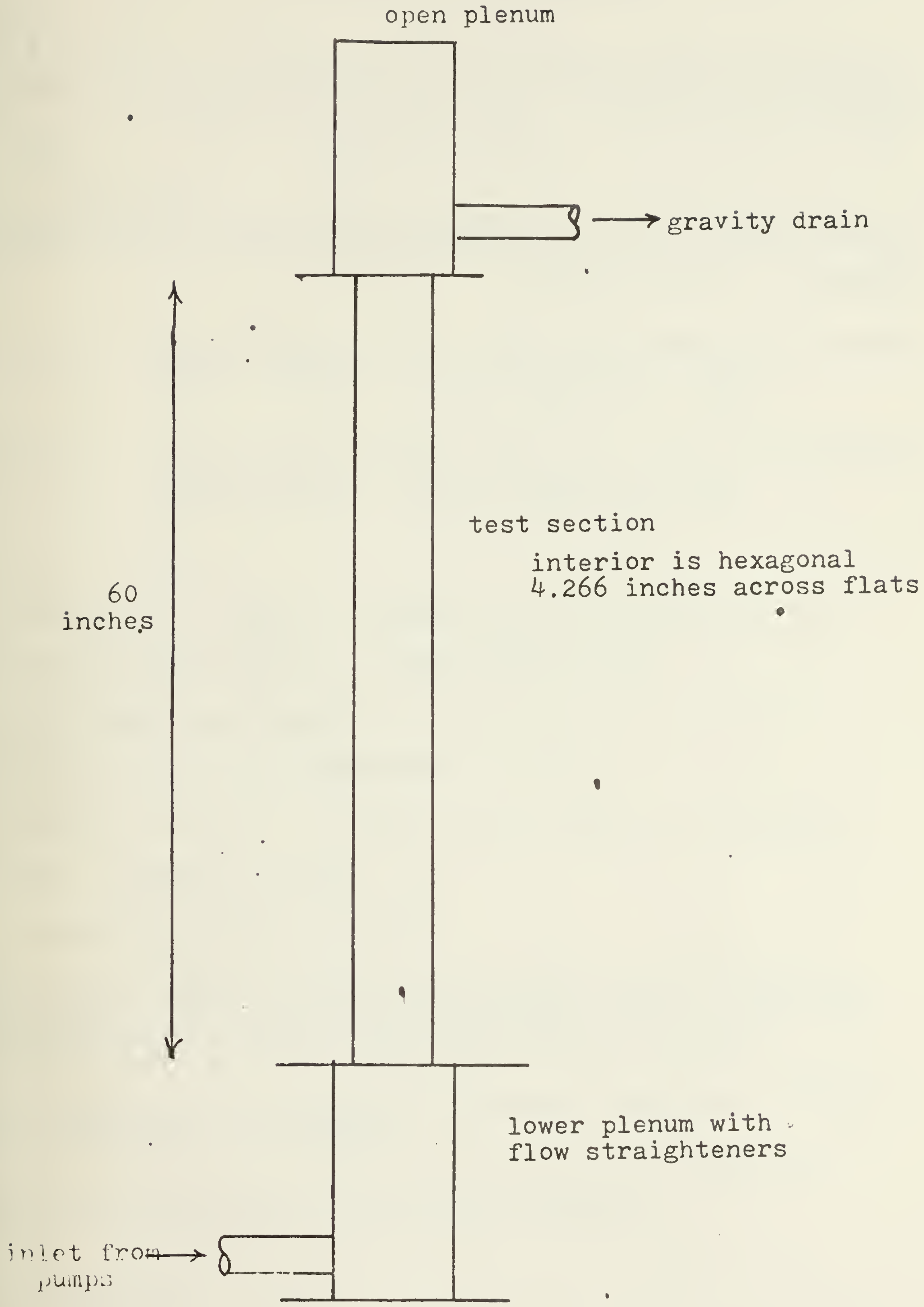
Mr. R. M. Wrob
Watlow Electric Manufacturing Co.
12001 Lackland Road
St. Louis, Missouri 63141
314-878-4600

Dear Mr. Wrob;

Enclosed are the specifications for the heaters proposed for the experiment which I am doing under an AEC contract. Please give me an estimate for the two power levels and the two heated lengths noted. Also enclosed is a sketch of the experimental setup to help you in making your estimate. Thank you.

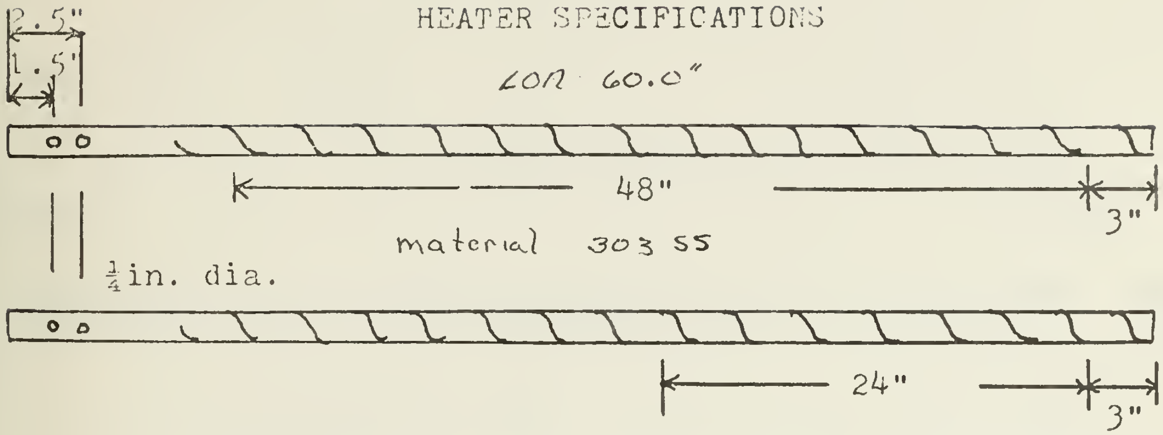
Carl H. Oosterman
Graduate Student
Nuclear Engineering Dept.

TEST SECTION



Enclosure(1)

HEATER SPECIFICATIONS



Case 1 Total power - 50 kw. with flat power distribution
Heated length - a) 48 inches as shown
b) 24 inches as shown

Case 2 Total power - 30 kw. with flat power distribution
Heated length - a) 48 inches as shown
b) 24 inches as shown

Fluid - water

Power Source - 230v - 600amp DC (no voltage control)

Outside Rod Diameter - 0.500 ± 0.005 inches

Wire Wrap - see Encl(3)

Maximum Operating Temperature - 325 F

Number of Cycles - 10 min. up to as many as reasonable

Core - Magnesium Oxide

Insulation - Boron Nitride

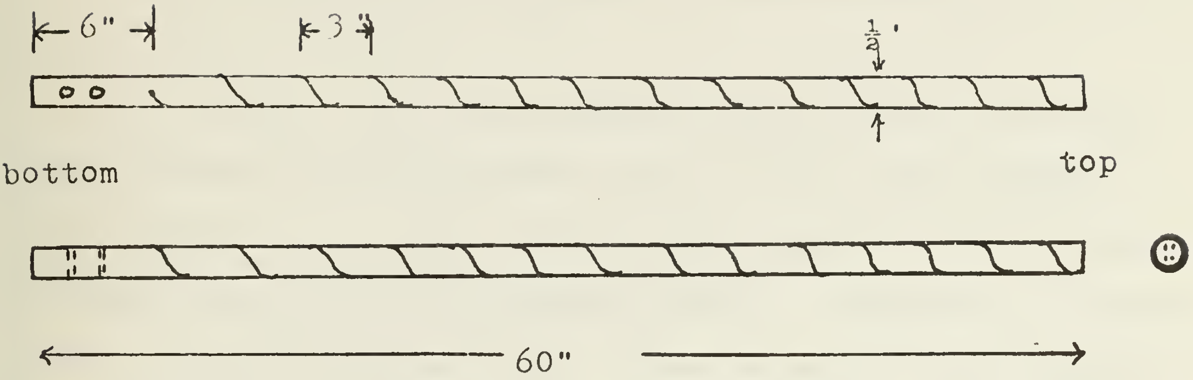
At least 6 feet of lead from the heater connection is required. This lead must be properly insulated against penetration by water as the heater may set in water for long periods of time(150psi at a flow of 300gpm).

Two terminals at one end is preferred although a terminal at each end is acceptable.

Two $\frac{1}{4}$-inch holes are required in the rod as shown for locating and support in the test section.

Enclosure(2)

WIRE WRAP DETAIL



Each rod must be wound with a helical wire wrap. The wire wrap starts 6 inches from the bottom end of the rod and ends at the top end. The wire is 0.031 inches in diameter - the pitch of the helix is 4 inches. The wrap starts at the same angular orientation as the two $\frac{1}{4}$ inch holes. Wire is wrapped clockwise as viewed from the bottom of the rod

Enclosure(3)

Appendix 7

SHAVED WIRE WRAP GEOMETRY CALCULATIONS

The unshaved wire wrap geometry calculations are done using constant cross-sectional areas of the wire wrap and rods (see sect. 2.1.1.2). With shaved wires the wire cross-sectional areas are not constant axially. Therefore, a method using weighted cross-sectional areas is used. The weighting factors are found by determining the volumes of wire present, per lead length, before and after shaving. The ratio of the latter to the former is the weighting factor used in the equations which follow. It is assumed that wires are shaved so that the wire is flattened with a surface parallel to the duct face it contacts. The volume of wire lost to shaving is found by calculating the cross-sectional area of wire shaved off at five locations equally spaced along the length of the wire shaved. Using the five cross-sectional areas, the volume shaved is found using Simpson's Rule. Simpson's Rule is appropriate because it uses second order curves between points in determining the volume (see Fig. A2-1).

1. Angle over which wire is shaved

$$\theta = 2 \cos^{-1} \left(\frac{D_p'' + D_s''}{D_p + 2D_s} \right) \qquad \text{(A2-1)}$$

2. Shaved length

$$L_s = \frac{\theta}{360}\left\{(2\pi r)^2 + h^2\right\}^{1/2} \qquad \text{(A2-2)}$$

$$r = \frac{D_p + D_s}{2} \qquad \text{(A2-3)}$$

3. Cross-sectional areas shaved off

A. Center of shaved length

$$a_{s3} = \frac{\pi D_s^2}{8} \qquad \text{(A2-4)}$$

B. Quarter points of shaved length

$$a_{s2} = a_{s4} = \frac{\pi D_s^2 \alpha}{4(360)} - \frac{D_s^2}{8} \sin \alpha \qquad \text{(A2-5)}$$

where

$$\alpha = \cos^{-1}\left\{\left|\frac{D_p + 2D_s}{D_s}\right| - \left|\frac{D_p + D_s}{D_s \cos \theta/2}\right|\right\} \text{(A2-6)}$$

C. Beginning and end of shaved length

$$a_{s1} = a_{s5} = 0$$

4. Simpson's Rule for volume shaved per wire wrap lead length

$$V_s = \frac{L_s}{12}\left(a_{s1} + 4a_{s2} + 2a_{s3} + 4a_{s4} + a_{s5}\right) \qquad \text{(A2-7)}$$

5. Wire volume per pitch before shaving

$$V = \frac{\pi D_s^2}{4} \left[(2\pi r)^2 + h^2\right]^{1/2} \qquad \text{(A2-8)}$$

$$r = (D_p + D_s)/2 \qquad \text{(A2-9)}$$

6. Shaved wire factor, Edge subchannel

$$S_e = \frac{V - V_s}{V} \qquad \text{(A2-10)}$$

7. Shaved wire factor, corner subchannel

$$S_c = \frac{V - 2V_s}{V} \qquad \text{(A2-11)}$$

A similar approach is used to find the new wetted perimeters. The arc of the areas shaved are found for 5 positions along the shaved length for each pitch. Simpson's Rule is used again to find the resultant surface area lost. This is compared to the total unshaved wire surface area to give a wetted perimeter factor.

1. Arc of area shaved
   A. Center of shaved length

$$\beta_3 = \frac{\pi D_s}{2} \qquad \text{(A2-12)}$$

   B. Quarter points of shaved length

$$\beta_2 = \beta_3 = \frac{D_s}{2} \frac{\alpha}{57.3} \qquad \text{(A2-13)}$$

C. Ends of shaved length

$$\beta_1 = \beta_5 = 0 \qquad \text{(A2-14)}$$

2. Simpson's Rule for surface area shaved

$$A_s = \frac{L_s}{12} (\beta_1 + 4\beta_2 + 2\beta_3 + 4\beta_4 + \beta_5) \qquad \text{(A2-15)}$$

3. Wire wrap surface area before shaving

$$A = \left[(2\pi r)^2 + h^2 \right]^{1/2} D_s \qquad \text{(A2-16)}$$

4. Wetted perimeter factor, Edge subchannel

$$W_e = \frac{A - A_s}{A} \qquad \text{(A2-17)}$$

5. Wetter perimeter factor, Corner subchannel

$$W_c = \frac{A - 2A_s}{A} \qquad \text{(A2-18)}$$

The adjusted equations for the shaved wire wrap are listed below.

$$A_T = \frac{\sqrt{3}}{2} D_f^2 \qquad \text{(A2-19)}$$

$$D_f = 2 \left[\frac{\sqrt{3}}{2} N_R P + \frac{D_p}{2} + \frac{D_s}{2} \right] \qquad \text{(A2-20)}$$

$$A_{FT} = N_1 A_1 + N_2 A_2 + N_3 A_3 \qquad \text{(A2-21)}$$

$$P_T = N_1 P_1 + N_2 P_2 + N_3 P_3 \qquad \text{(A2-22)}$$

Unit Subdivision Dimensions

1. Interior - unchanged (see Sect. 2.1.1.2)

2. Edge

Area for flow

$$A_2 = P\left(\frac{D_p}{2} + g\right) + \frac{\pi D_p^2}{8} + S_e \frac{\pi}{8} D_s^2 \qquad \text{(A2-23)}$$

Wetted Perimeter

$$P_2 = \frac{\pi}{2} D_p + P + \frac{1}{2} W_e \pi D_s \qquad \text{(A2-24)}$$

3. Corner

Area for flow

$$A_3 = 2\left\{\frac{1}{2}\left[\frac{D_p}{2} + g\right]\left[\frac{D_\ell - PN_R}{2}\right]\right\} - \frac{ND_p^2}{48} - S_c \frac{ND_s^2}{24} \qquad \text{(A2-25)}$$

Wetted Perimeter

$$P_3 = \frac{\pi}{6} D_p + D_\ell - PN_R + W_c \frac{\pi}{6} D_s \qquad \text{(A2-26)}$$

For $h = 4$ in.

$D_s = 0.032$ in.

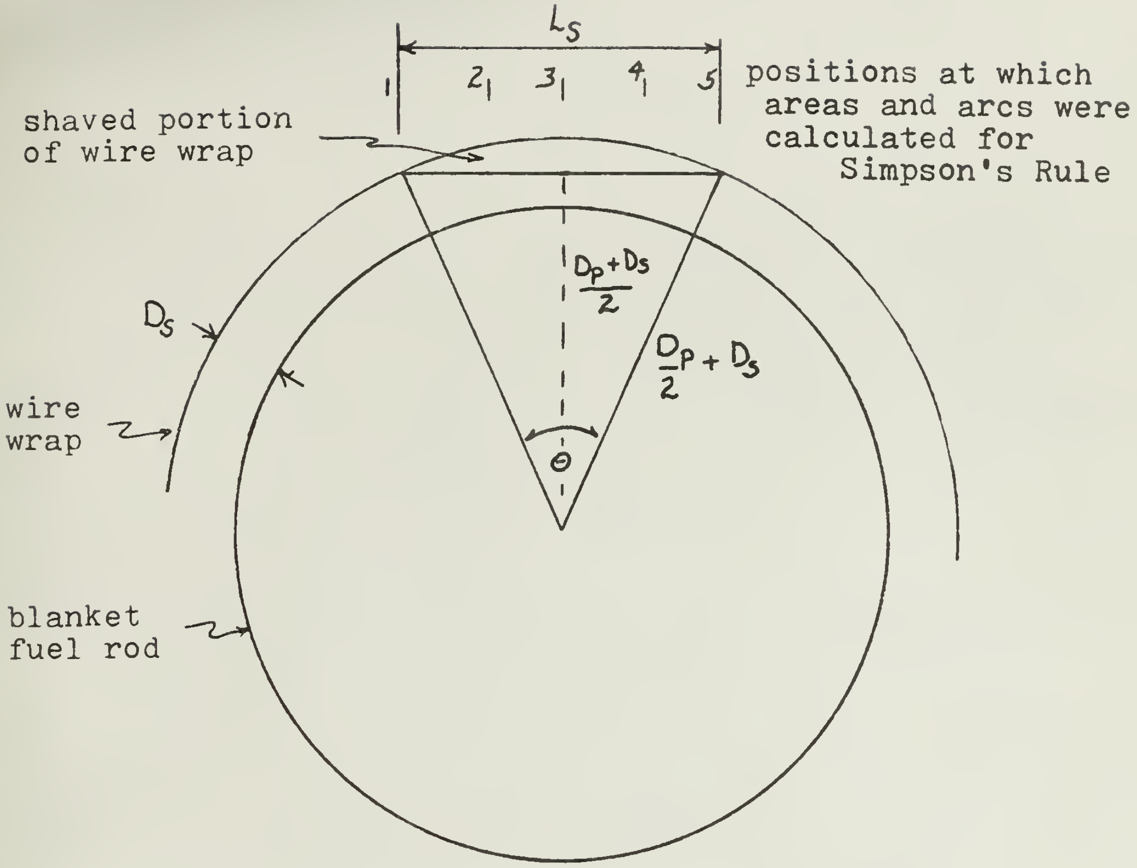
$D_p = 0.502$ in.

$S_e = 0.969$

$S_c = 0.939$

$W_e = .964$

$W_c = .928$


L_S
1
2
3
4
5
positions at which areas and arcs were calculated for Simpson's Rule
shaved portion of wire wrap
D_S
wire wrap
blanket fuel rod
$\frac{D_P+D_S}{2}$
$\frac{D_P}{2}+D_S$
θ

End View of rod and wire wrap

Cross-section of wire

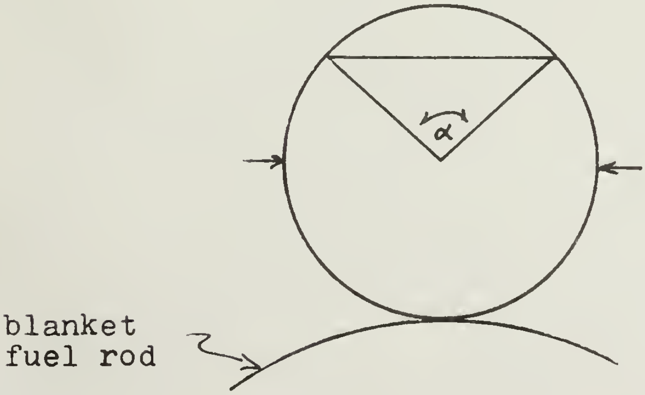


Figure A7-1

163976

Thesis
O5832
pt.2

Oosterman
An experimental investigation of coolant mixing in a wire wrapped LMFBR blanket subassembly.

163976

Thesis
O5832
pt.2

Oosterman
An experimental investigation of coolant mixing in a wire wrapped LMFBR blanket subassembly.

thesO5832pt.2
An experimental investigation of coolant
3 2768 001 97360 5
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